



NASA

PATENT

ABSTRACTS

BIBLIOGRAPHY

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Section 2 • Indexes

JANUARY 1978

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04)	N69-20701–N73-33931
NASA SP-7039(12)	N74-10001–N77-34042

NASA

**PATENT
ABSTRACTS
BIBLIOGRAPHY**

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and December 1977 This issue supersedes all previous Index Sections



Scientific and Technical Information Office
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

JANUARY 1978
Washington, D C

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INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Unlike the most recently published issues of *PAB*, the Abstract Section for this issue covers the years 1974 through 1977. To provide a more convenient abstract arrangement, those items originally appearing under the old category scheme were adapted to the revised version which began in 1975. Thus all items will appear in the Abstract Section in numeric sequence under the currently used categories. The Index Section continues to be cumulative, covering all NASA-owned inventions announced in *STAR* since May 1969.

The 1091 citations published in this issue of the Abstract Section cover the period January 1974 through December 1977. The Index Section contains references to the 3292 citations covering the period May 1969 through December 1977.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

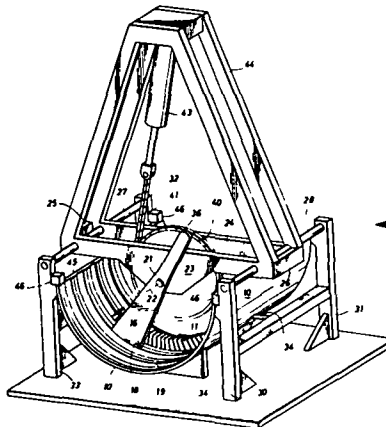
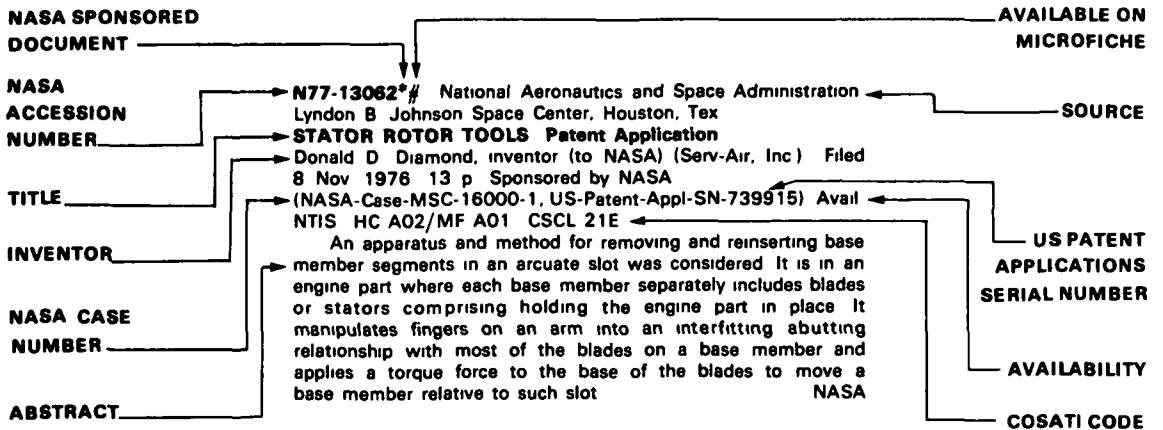
Abstract Citation Data Elements Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name

Title of Invention
 U S Patent Application Serial Number
 U S Patent Number (for issued patents only)
 U S Patent Office Classification Number(s)
 (for issued patents only)

These data elements appear in the citation of the abstract as depicted in the Typical Citation and Abstract reproduced below and are also used in the several indexes

TYPICAL CITATION AND ABSTRACT



KEY ILLUSTRATION

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes which are cross-indexed and are useful in locating a single invention or groups of inventions

Each of the five indexes utilizes basic data elements (1) Subject Category Number, (2) NASA Accession Number, and (3) NASA Case Number, in addition to other specific index terms

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U S Patent Application Serial Number, (3) U S Patent Classification Number, and (4) U S Patent Number and indicates the related Subject Category Number and the NASA Accession Number

Accession Number Index: Lists all inventions in order of ascending NASA Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U S Patent Application Serial Number, the U S Patent Classification Number, and the U S Patent Number

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible when using the flexibility incorporated into the *NASA PAB*

(1) *Using Subject Category* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder

(2) *Using Subject Index* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term (B) Note the indicated Accession Number and the Subject Category Number (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing

(3) *Using Patent Classification Index* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Office Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated inventions(s), and (B) follow the instructions outlined in (2)(B), and (D) above

PUBLIC AVAILABILITY OF COPIES OF PATENTS AND PATENT APPLICATIONS

Copies of U S patents may be purchased directly from the U S Patent Office, Washington, D C 20231, for fifty cents a copy When ordering patents, the U S Patent Number should be used, and payment must be remitted in advance, preferably by money order or check payable to the Commissioner of Patents Prepaid purchase coupons for ordering are also available from the Patent Office

NASA patent application specifications are sold in paper copy by the National Technical Information Service at price code A02 (\$4 00 domestic, \$8 00 foreign) Microfiche are sold at price code A01 (\$3 00 domestic, \$4 50 foreign) The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS

LICENSES FOR COMMERCIAL USE INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U S patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Assistant General Counsel for Patent Matters, Code GP-4, National Aeronautics and Space Administration, Washington, D C 20546 Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U S Patent Number or the U S Application Serial Number assigned to the invention as shown in *NASA PAB*

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table Formal application of license must be submitted on the NASA Form, Application for NASA Patent License, which is available upon request from any NASA Patent Counsel

**NASA Case
Number
Prefix Letters**

**Address of Cognizant
NASA Patent Counsel**

ARC-xxxxx
XAR-xxxxx

Ames Research Center
Mail Code 200-11A
Moffett Field, California 94035
Telephone (415)965-5104

ERC-xxxxx
XER-xxxxx
HQN-xxxxx
XHQ-xxxxx

NASA Headquarters
Mail Code GP-4
Washington, D C 20546
Telephone (202)755-3954

GSC-xxxxx
XGS-xxxxx

Goddard Space Flight Center
Mail Code 204
Greenbelt, Maryland 20771
Telephone (301)982-2351

KSC-xxxxx
XKS-xxxxx

John F Kennedy Space Center
Mail Code AA-PAT
Kennedy Space Center, Florida 32899
Telephone (305)867-2544

LAR-xxxxx
XLA-xxxxx

Langley Research Center
Mail Code 456
Langley Station
Hampton, Virginia 23365
Telephone (804)827-3725

LEW-xxxxx
XLE-xxxxx

Lewis Research Center
Mail Code 500-311
21000 Brookpark Road
Cleveland, Ohio 44135
Telephone (216)433-6346

MSC-xxxxx
XMS-xxxxx

Lyndon B Johnson Space Center
Mail Code AM
Houston, Texas 77058
Telephone (713)483-4871

MFS-xxxxx
XMF-xxxxx

George C Marshall Space Flight
Center
Mail Code CC01
Huntsville, Alabama 35812
Telephone (205)453-0020

NPO-xxxxx
XNP-xxxxx
FRC-xxxxx
XFR-xxxxx
WOO-xxxxx

NASA Resident Legal Office
Mail Code 180-601
4800 Oak Grove Drive
Pasadena, California 91103
Telephone (213)354-2700

PATENT LICENSING REGULATIONS

Title 14—AERONAUTICS AND SPACE

Chapter V—National Aeronautics and Space Administration

PART 1245—PATENTS

Subpart 2—Patent Licensing Regulations

1. Subpart 2 is revised in its entirety as follows:

Sec.	
1245.200	Scope of subpart.
1245.201	Definitions.
1245.202	Basic considerations
1245.203	Licenses for practical application of inventions.
1245.204	Other licenses.
1245.205	Publication of NASA inventions available for license.
1245.206	Application for nonexclusive license.
1245.207	Application for exclusive license.
1245.208	Processing applications for license.
1245.209	Royalties and fees.
1245.210	Reports
1245.211	Revocation of licenses.
1245.212	Appeals
1245.213	Litigation.
1245.214	Address of communications.

AUTHORITY The provisions of this Subpart 2 issued under 42 USC 2457, 2473(b)(3).

§ 1245.200 Scope of subpart.

This Subpart 2 prescribes the terms, conditions, and procedures for licensing inventions covered by U.S. patents and patent applications for which the Administrator of the National Aeronautics and Space Administration holds title on behalf of the United States.

§ 1245.201 Definitions.

For the purpose of this subpart, the following definitions apply:

(a) "Invention" means an invention covered by a U.S. patent or patent application for which the Administrator of NASA holds title on behalf of the United States and which is designated by the Administration as appropriate for the grant of license(s) in accordance with this subpart.

(b) "To practice an invention" means to make or have made, use or have used, sell or have sold, or otherwise dispose of according to law any machine, article of manufacture or composition of matter physically embodying the invention, or to use or have used the process or method comprising the invention

(c) "Practical application" means the manufacture in the case of a composition of matter or product, the use in the case of a process, or the operation in the case of a machine, under such conditions as to establish that the invention is being utilized and that its benefits are reasonably accessible to the public.

(d) "Special invention" means any invention designated by the NASA Assistant General Counsel for Patent Matters to be subject to short-form licensing procedures. An invention may be designated as a special invention when a determination is made that:

(1) Practical application has occurred and is likely to continue for the life of

the patent and for which an exclusive license is not in force, or

(2) The public interest would be served by the expeditious granting of a nonexclusive license for practice of the invention by the public.

(e) The "Administrator" means the Administrator of the National Aeronautics and Space Administration, or his designee.

(f) "Government" means the Government of the United States of America.

(g) The "Inventions and Contributions Board" means the NASA Inventions and Contributions Board established by the Administrator of NASA within the Administration in accordance with section 305 of the National Aeronautics and Space Act of 1958 as amended (42 USC 2457)

§ 1245.202 Basic considerations.

(a) Much of the new technology resulting from NASA sponsored research and development in aeronautical and space activities has application in other fields. NASA has special authority and responsibility under the National Aeronautics and Space Act of 1958, as amended (42 USC 2451), to provide for the widest practical dissemination and utilization of this new technology. In addition, NASA has been given unique requirements to protect the inventions resulting from NASA activities and to promulgate licensing regulations to encourage commercial use of these inventions.

(b) NASA-owned inventions will best serve the interests of the United States when they are brought to practical application in the shortest time possible. Although NASA encourages the non-exclusive licensing of its inventions to promote competition and achieve their widest possible utilization, the commercial development of certain inventions calls for a substantial capital investment which private manufacturers may be unwilling to risk under a nonexclusive license. It is the policy of NASA to seek exclusive licenses when such licenses will provide the necessary incentive to the licensee to achieve early practical application of the invention.

(c) The Administrator, in determining whether to grant an exclusive license, will evaluate all relevant information submitted by applicants and all other persons and will consider the necessity for further technical and market development of the invention, the capabilities of prospective licensees, their proposed plans to undertake the required investment and development, the impact on competitors, and the benefits of the license to the Government and to the public. Preference for exclusive license shall be given to U.S. citizens or companies who intend to manufacture or use, in the case of a process, the invention in the United States of America, its territories and possessions. Consideration may also be given to assisting small businesses and minority business enterprises, as well as economically depressed, low income and labor surplus areas.

(d) All licenses for inventions shall

be by express written instruments. No license shall be granted either expressly or by implication, for a NASA invention except as provided for in §§ 1245.203 and 1245.204 and in any existing or future treaty or agreement between the United States and any foreign government.

(e) Licenses for inventions covered by NASA-owned foreign patents and patent applications shall be granted in accordance with the NASA Foreign Patent Licensing Regulations (§ 1245.4).

§ 1245.203 Licenses for practical application of inventions.

(a) *General* As an incentive to encourage practical application of inventions, licenses will be granted to responsible applicants according to the circumstances and conditions set forth in this section.

(b) *Nonexclusive licenses* (1) Each invention will be made available to responsible applicants for nonexclusive, revocable licensing in accordance with § 1245.206, consistent with the provisions of any existing exclusive license.

(2) The duration of the license shall be for a period as specified in the license.

(3) The license shall require the licensee to achieve the practical application of the invention and to then practice the invention for the duration of the license.

(4) The license may be granted for all or less than all fields of use of the invention and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(5) The license shall extend to the subsidiaries and affiliates of the licensee and shall be nonassignable without approval of the Administrator, NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(c) *Short-form nonexclusive licenses.* A nonexclusive, revocable license for a special invention, as defined in § 1245.201 (d), shall be granted upon written request, to any applicant by the Patent Counsel of the NASA installation having cognizance of the invention.

(d) *Exclusive licenses.* (1) A limited exclusive license may be granted on an invention available for such licensing provided that:

(i) The Administrator has determined that: (a) The invention has not been brought to practical application by a nonexclusive licensee in the fields of use or in the geographical locations covered by the application for the exclusive license, (b) practical application of the invention in the fields of use or geographical locations covered by the application for the exclusive license is not likely to be achieved expeditiously by the further funding of the invention by the Government or under a nonexclusive license requested by any applicant pursuant to these regulations, and (c) the exclusive license will provide the necessary incentive to the licensee to achieve the practical application of the invention; and

(ii) Either a notice pursuant to

PATENT LICENSING REGULATIONS

§ 1245.205 listing the invention as available for licensing has been published in the FEDERAL REGISTER for at least 9 months, or a patent covering the invention has been issued for at least 6 months. However, a limited exclusive license may be granted prior to the periods specified above if the Administrator determines that the public interest will best be served by the earlier grant of an exclusive license.

(2) The license may be granted for all or less than all fields of use of the invention, and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(3) The exclusive period of the license shall be negotiated, but shall be for less than the terminal portion of the patent, and shall be related to the period necessary to provide a reasonable incentive to invest the necessary risk capital.

(4) The license shall require the licensee to practice the invention within a period specified in the license and then to achieve practical application of the invention.

(5) The license shall require the licensee to expend a specified minimum sum of money and/or to take other specified actions, within indicated period(s) after the effective date of the license, in an effort to achieve practical application of the invention.

(6) The license shall be subject to at least an irrevocable royalty-free right of the Government of the United States to practice and have practiced the invention throughout the world by or on behalf of the Government of the United States and on behalf of any foreign government pursuant to any existing or future treaty or agreement with the United States.

(7) The license may reserve to the Administrator, NASA, under the following circumstances, the right to require the granting of a sublicense to responsible applicant(s) on terms that are considered reasonable by the Administrator, taking into consideration the current royalty rates under similar patents and other pertinent facts: (i) To the extent that the invention is required for public use by Government regulation, or (ii) as may be necessary to fulfill health or safety needs, or (iii) for other purposes stipulated in the license.

(8) The license shall be nontransferable except to the successor of that part of the licensee's business to which the invention pertains.

(9) Subject to the approval of the Administrator, the licensee may grant sublicenses under the license. Each sublicense granted by an exclusive licensee shall make reference to and shall provide that the sublicense is subject to the terms of the exclusive license including the rights retained by the Government under the exclusive license. A copy of each sublicense shall be furnished to the Administrator.

(10) The license may be subject to such other reservations as may be in the public interest.

§ 1245.204 Other licenses.

(a) *License to contractor.* There is

hereby granted to the contractor reporting an invention made in the performance of work under a contract of NASA in the manner specified in section 305(a)

(1) or (2) of the National Aeronautics and Space Act of 1958 as amended (42 U.S.C. 2457(a) (1) or (2)), a revocable, nonexclusive, royalty-free license for the practice of such invention, together with the right to grant sublicenses of the same scope to the extent the contractor was legally obligated to do so at the time the contract was awarded. Such license and right is nontransferable except to the successor of that part of the contractor's business to which the invention pertains.

(b) *Miscellaneous licenses.* Subject to any outstanding licenses, nothing in this subpart 2 shall preclude the Administrator from granting other licenses for inventions, when he determines that do so would provide for an equitable distribution of rights. The following exemplify circumstances wherein such licenses may be granted:

(1) In consideration of the settlement of an interference;

(2) In consideration of a release of a claim of infringement; or

(3) In exchange for or as part of the consideration for a license under adversely held patent(s).

§ 1245.205 Publication of NASA inventions available for license.

(a) A notice will be periodically published in the FEDERAL REGISTER listing inventions available for licensing. Abstracts of the inventions will also be published in the NASA Scientific and Technical Aerospace Reports (STAR) and other NASA publications.

(b) Copies of pending patent applications for inventions abstracted in STAR may be purchased from the National Technical Information Service, Springfield, Va. 22151.

§ 1245.206 Application for nonexclusive license.

(a) *Submission of application.* An application for nonexclusive license under § 1245.203(b) or a short-form nonexclusive license for special inventions under § 1245.203(c) shall be addressed to the NASA Patent Counsel of the NASA installation having cognizance over the NASA invention for which a license is desired or to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for nonexclusive license.* An application for nonexclusive license under § 1245.203(b) shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number of patent number, title and date, if known;

(2) Name and address of the person, company or organization applying for license and whether the applicant is a U.S. citizen or a U.S. corporation;

(3) Name and address of representative of applicant to whom correspondence should be sent;

(4) Nature and type of applicant's business;

(5) Number of employees;

(6) Purpose for which license is desired;

(7) A statement that contains the applicant's best knowledge of the extent to which the invention is being practiced by private industry and the Government;

(8) A description of applicant's capability and plan to undertake the development and marketing required to achieve the practical application of the invention, including the geographical location where the applicant plans to manufacture or use, in the case of a process, the invention; and

(9) A statement indicating the minimum term of years the applicant desires to be licensed.

(c) *Contents of an application for a short-form nonexclusive license.* An application for a short-form nonexclusive license under § 1245.203(c) for a special invention shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number or patent number, title and date, if known;

(2) Name and address of company or organization applying for license; and

(3) Name and address of representative of applicant to whom correspondence should be sent.

§ 1245.207 Application for exclusive license.

(a) *Submission of application.* An application for exclusive license under § 1245.203(d) may be submitted to NASA at any time. An application for exclusive license shall be addressed to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for exclusive license.* In addition to the requirements set forth in § 1245.206(b), the application for an exclusive license shall include:

(1) Applicant's status, if any, in any one or more of the following categories:

(i) Small business firm;

(ii) Minority business enterprise;

(iii) Location in a surplus labor area;

(iv) Location in a low-income urban area; and

(v) Location in an area designated by the Government as economically depressed.

(2) A statement indicating the time, expenditure, and other acts which the applicant considers necessary to achieve practical application of the invention, and the applicant's offer to invest that sum and to perform such acts if the license is granted.

(3) A statement whether the applicant would be willing to accept a license for all or less than all fields of use of the invention throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(4) A statement indicating the amount of royalty fees or other consideration, if any, the applicant would be willing to pay the Government for the exclusive license; and

(5) Any other facts which the applicant believes to show it to be in the interests of the United States of America for the Administrator to grant an exclusive license rather than a nonexclusive li-

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cense and that such an exclusive license should be granted to the applicant

§ 1245.208 Processing applications for license.

(a) *Initial review* Applications for nonexclusive and exclusive licenses under §§ 1245.206 and 1245.207 will be reviewed by the Patent Counsel of the NASA Installation having cognizance for the invention and the NASA Assistant General Counsel for Patent Matters, to determine the conformity and appropriateness of the application for license and the availability of the specific invention for the license requested. The Assistant General Counsel for Patent Matters will forward all applications for license conforming to §§ 1245.206(b) and 1245.207(b) to the NASA Inventions and Contributions Board when the invention is available for consideration of the requested license. Prior to forwarding applications for exclusive licenses to the Inventions and Contributions Board, notice in writing will be given to each nonexclusive licensee for the specific invention advising of the receipt of the application for the exclusive license and providing each nonexclusive licensee with a 30-day period for submitting either evidence that practical application of the invention has occurred or is about to occur or, an application for an exclusive license for the invention.

(b) *Recommendations of Inventions and Contributions Board.* The Inventions and Contributions Board shall, in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, evaluate all applications for license forwarded by the Assistant General Counsel for Patent Matters. Based upon the facts presented to the Inventions and Contributions Board in the application and any other facts in its possession, the Inventions and Contributions Board shall recommend to the Administrator: (1) Whether a nonexclusive or exclusive license should be granted, (2) the identity of the licensee, and (3) any special terms or conditions of the license.

(c) *Determination of Administrator and grant of nonexclusive licenses.* The Administrator shall review the recommendations of the Inventions and Contributions Board and shall determine whether to grant the nonexclusive license as recommended by the Board. If the Administrator determines to grant the license, the license will be granted upon the negotiation of the appropriate terms and conditions of the Office of General Counsel.

(d) *Determination of Administrator and grant of exclusive licenses—(1) Notice.* If the Administrator determines that the best interest of the United States will be served by the granting of an exclusive license in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, a notice shall be published in the FEDERAL REGISTER announcing the intent to grant the exclusive license, the identification of the invention, special terms or conditions of the proposed license, and a statement that NASA will grant the exclusive license unless within 30 days of the publication of such notice the Inventions and Contributions Board receives in writing

any of the following together with supporting documentation:

(i) A statement from any person setting forth reasons why it would not be in the best interest of the United States to grant the proposed exclusive license, or

(ii) An application for a nonexclusive license under such invention, in accordance with § 1245.206(b), in which applicant states that he has already brought or is likely to bring the invention to practical application within a reasonable period.

The Inventions and Contributions Board shall, upon receipt of a written request within the 30 days' notice period, grant an extension of 30 days for the submission of the documents designated above

(2) *Recommendation of Inventions and Contributions Board.* Upon the expiration of the period required by subparagraph (1) of this paragraph, the Board shall review all written responses to the notice and shall then recommend to the Administrator whether to grant the exclusive license as the Board initially recommended or whether a different form of license, if any, should instead be granted

(3) *Grant of exclusive licenses.* The Administrator shall review the Board's recommendation and shall determine if the interest of the United States would best be served by the grant of an exclusive license as recommended by the Board. If the Administrator determines to grant the exclusive license, the license will be granted upon the negotiation of the appropriate terms and conditions by the Office of General Counsel.

§ 1245.209 Royalties and fees.

(a) Normally, a nonexclusive license for the practical application of an invention granted to a U.S. citizen or company will not require the payment of royalties; however, NASA may require other consideration.

(b) An exclusive license for an invention may require the payment of royalties, fees or other consideration when the licensing circumstances and the basic considerations in § 1245.202, considered together, indicate that it is in the public interest to do so.

§ 1245.210 Reports.

A license shall require the licensee to submit periodic reports of his efforts to work the invention. The reports shall contain information within his knowledge, or which he may acquire under normal business practice, pertaining to the commercial use that is being made of the invention and such other information which the Administrator may determine pertinent to the licensing program and which is specified in the license.

§ 1245.211 Revocation of licenses.

(a) Any license granted pursuant to § 1245.203 may be revoked, either in part or in its entirety, by the Administrator if in his opinion the licensee at any time shall fail to use adequate efforts to bring to or achieve practical application of the invention in accordance with the terms of the license, or if the licensee at any

time shall default in making any report required by the license, or shall make any false report, or shall commit any breach of any covenant or agreement therein contained, and shall fail to remedy any such default, false report, or breach within 30 days after written notice, or if the patent is deemed unenforceable either by the Attorney General or a final decision of a U.S. court.

(b) Any license granted pursuant to § 1245.204(a) may be revoked, either in part or in its entirety, by the Administrator if in his opinion such revocation is necessary to achieve the earliest practical application of the invention pursuant to an application for exclusive license submitted in accordance with § 1245.207, or the licensee at any time shall breach any covenant or agreement contained in the license, and shall fail to remedy any such breach within 30 days after written notice thereof.

(c) Before revoking any license granted pursuant to this Subpart 2 for any cause, there will be furnished to the licensee a written notice of intention to revoke the license, and the licensee will be allowed 30 days after such notice in which to appeal and request a hearing before the Inventions and Contributions Board on the question of revocation. After a hearing, the Inventions and Contributions Board shall transmit to the Administrator the record of proceedings, its findings of fact, and its recommendation whether the license should be revoked either in part or in its entirety. The Administrator shall review the recommendation of the Board and determine whether to revoke the license in part or in its entirety. Revocation of a license shall include revocation of all sublicenses which have been granted.

§ 1245.212 Appeals.

Any person desiring to file an appeal pursuant to § 1245.211(c) shall address the appeal to Chairman, Inventions and Contributions Board. Any person filing an appeal shall be afforded an opportunity to be heard before the Inventions and Contributions Board, and to offer evidence in support of his appeal. The procedures to be followed in any such matter shall be determined by the Administrator. The Board shall make findings of fact and recommendations with respect to disposition of the appeal. The decision on the appeal shall be made by the Administrator, and such decision shall be final and conclusive, except on questions of law, unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

§ 1245.213 Litigation.

An exclusive licensee shall be granted the right to sue at his own expense any party who infringes the rights set forth in his license and covered by the licensed patent. The licensee may join the Government, upon consent of the Attorney General, as a party complainant in such suit, but without expense to the Government and the licensee shall pay costs and any final judgment or decree that may be rendered against the Govern-

PATENT LICENSING REGULATIONS

ment in such suit. The Government shall also have an absolute right to intervene in any such suit at its own expense. The licensee shall be obligated to promptly furnish to the Government, upon request, copies of all pleadings and other papers filed in any such suit and of evidence adduced in proceedings relating to the licensed patent including, but not limited to, negotiations for settlement and agreements settling claims by a licensee based on the licensed patent, and all other books, documents, papers, and

records pertaining to such suit. If, as a result of any such litigation the patent shall be declared invalid, the licensee shall have the right to surrender his license and be relieved from any further obligation thereunder.

§ 1245.214 Address of communications.

(a) Communications to the Assistant General Counsel for Patent Matters in accordance with §§ 1245.206 and 1245.207 and requests for information concerning licenses for NASA inventions should be

addressed to the Assistant General Counsel for Patent Matters, Code GP, National Aeronautics and Space Administration, Washington, D C 20546.

(b) Communications to the Inventions and Contributions Board in accordance with §§ 1245.208, 1245.211, and 1245.212 should be addressed to Chairman, Inventions and Contributions Board, National Aeronautics and Space Administration, Washington, D C 20546.

Effective date. The regulations set forth in this subpart 2 are effective April 1, 1972.

JAMES C FLETCHER,
Administrator.

FOREIGN PATENT LICENSING REGULATIONS

Selected NASA inventions are also available for licensing in countries other than the United States in accordance with the NASA Foreign Patent Licensing Regulation (14 C.F.R. 1245.4), a copy of which is available from any NASA Patent Counsel. For abstracts of NASA-owned inventions available for licensing in countries other than the United States, see NASA SP-7038, "Significant NASA Inventions Available for Licensing in Countries Other Than the United States." A copy of this NASA publication is available from NASA Headquarters, Code GP-4, Washington, D C, 20546.

Subject Categories

(1969 – 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery, wings, rotors, and control surfaces For applications see 02 Aircraft and 32 Space Vehicles For related information see also 12 Fluid Mechanics, and 33 Thermodynamics and Combustion

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc. and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL), flight tests, operating problems (e.g., sonic boom), safety and safety devices, economics, and stability and control For basic research see 01 Aerodynamics For related information see also 31 Space Vehicles, and 32 Structural Mechanics

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells, auxiliary gas turbines, hydraulic, pneumatic and electrical systems, actuators, and inverters For related information see also 09 Electronic Equipment, 22 Nuclear Engineering, and 28 Propulsion Systems

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems, physiological and psychological factors For related information see also 05 Biotechnology

05 Biotechnology

Includes life support systems, human engineering, protective clothing and equipment, crew training and evaluation, and piloting For related information see also 04 Biosciences

06 Chemistry

Includes chemical analysis and identification (e.g., spectroscopy) For applications see 17 Materials, Metallic, 18 Materials, Nonmetallic, and 27 Propellants

07 Communications

Includes communications equipment and techniques, noise, radio and communications blackout, modulation telemetry, tracking radar and optical observation, and wave propagation For basic research see 23 Physics, General, and 21 Navigation

08 Computers

Includes computer operation and programming, and data processing For applications, see specific categories For related information see also 19 Mathematics

09 Electronic Equipment

Includes electronic test equipment and maintainability, component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry, microminiaturization For basic research see 10 Electronics For related information see also 07 Communications and 21 Navigation

10 Electronics

Includes circuit theory, and feedback and control theory For applications see 09 Electronic Equipment For related information see specific Physics categories

11 Facilities, Research and Support

Includes airports, lunar and planetary bases including associated vehicles, ground support systems, related logistics, simulators, test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels), test ranges, and tracking stations

12 Fluid Mechanics

Includes boundary-layer flow, compressible flow, gas dynamics, hydrodynamics, and turbulence For related information see also 01 Aerodynamics, and 33 Thermodynamics and Combustion

13 Geophysics

Includes aeronomy, upper and lower atmosphere studies, oceanography, cartography, and geodesy For related information see also 20 Meteorology, 29 Space Radiation, and 30 Space Sciences

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems, gyroscopes, measuring instruments and gages, recorders, transducers, aerial photography, and telescopes and cameras

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment, lubrication, friction, and wear, manufacturing processes and quality control, reliability, drafting, and materials fabrication, handling, and inspection

16 Masers

Includes applications of masers and lasers For basic research see 26 Physics, Solid-State

17 Materials, Metallic

Includes cermets, corrosion, physical and mechanical properties of materials, metallurgy, and applications as structural materials For basic research see 06 Chemistry For related information see also 18 Materials, Nonmetallic, and 32 Structural Mechanics

18 Materials, Nonmetallic

Includes corrosion, physical and mechanical properties of materials (e.g., plastics), and elastomers hydraulic fluids, etc For basic research see 06 Chemistry For related information see also 17 Materials, Metallic, 27 Propellants, and 32 Structural Mechanics

19 Mathematics

Includes calculation methods and theory, and numerical analysis For applications see specific categories For related information see also 08 Computers

20 Meteorology

Includes climatology, weather forecasting, and visibility studies For related information see also 13 Geophysics, and 30 Space Sciences

21 Navigation

Includes guidance, autopilots, star and planet tracking, inertial platforms, and air traffic control For related information see also 07 Communications

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power For basic research see 24 Physics, Atomic, Molecular, and Nuclear For related information see also 03 Auxiliary Systems, and 28 Propulsion Systems

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics For astrophysics see 30 Space Sciences For geophysics and related information see also 13 Geophysics, 20 Meteorology, and 29 Space Radiation

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics For applications see 22 Nuclear Engineering For related information see also 29 Space Radiation

25 Physics, Plasma

Includes magnetohydrodynamics For applications see 28 Propulsion Systems

26 Physics, Solid-State

Includes semiconductor theory, and superconductivity For applications see 16 Masers For related information see also 10 Electronics

27 Propellants

Includes fuels, igniters, and oxidizers For basic re-

search see 06 Chemistry, and 33 Thermodynamics and Combustion For related information see also 28 Propulsion Systems

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion For nuclear propulsion see 22 Nuclear Engineering For basic research see 23 Physics, General, and 33 Thermodynamics and Combustion For applications see 31 Space Vehicles For related information see also 27 Propellants

29 Space Radiation

Includes cosmic radiation, solar flares, solar radiation, and Van Allen radiation belts For related information see also 13 Geophysics, and 24 Physics, Atomic, Molecular, and Nuclear

30 Space Sciences

Includes astronomy and astrophysics, cosmology, lunar and planetary flight and exploration, and theoretical analysis of orbits and trajectories For related information see also 11 Facilities, Research and Support, and 31 Space Vehicles

31 Space Vehicles

Includes launch vehicles, manned space capsules, clustered and multistage rockets, satellites, sounding rockets and probes, and operating problems For basic research see 30 Space Sciences For related information see also 28 Propulsion Systems, and 32 Structural Mechanics

32 Structural Mechanics

Includes structural element design and weight analysis, fatigue, thermal stress, impact phenomena, vibration, flutter, inflatable structures, and structural tests For related information see also 17 Materials, Metallic, and 18 Materials, Nonmetallic

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects, and combustion theory For related information see also 12 Fluid Mechanics, and 27 Propellants

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research, defense aspects, information retrieval, management, law and related legal matters, and legislative hearings and documents

TABLE OF CONTENTS

Section 1 • Abstracts

Subject Categories (1974 -)

AERONAUTICS

Includes aeronautics (general), aerodynamics, air transportation and safety, aircraft communications and navigation, aircraft design, testing and performance, aircraft instrumentation, aircraft propulsion and power, aircraft stability and control, and research and support facilities (air)

For related information see also *Astronautics*

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces, and internal flow in ducts and turbomachinery

For related information see also *34 Fluid Mechanics and Heat Transfer*

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations, and aircraft accidents

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft, air navigation systems (satellite and ground based), and air traffic control

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications*

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices, and flight instruments

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e g , gas turbine engines and compressors, and on-board auxiliary power plants for aircraft

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities, piloting, flight controls, and autopilots

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways, aircraft repair and overhaul facilities, wind tunnels, shock tube facilities, and engine test blocks

For related information see also *14 Ground Support Systems and Facilities (Space)*

ASTRONAUTICS

Includes astronautics (general), astrodynamics, ground support systems and facilities (space), launch vehicles and space vehicles, space transportation, spacecraft communications, command and tracking, spacecraft design, testing and performance, spacecraft instrumentation, and spacecraft propulsion and power

For related information see also *Aeronautics*

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*

13 ASTRODYNAMICS

Includes powered and free-flight trajectories, and orbit and launching dynamics

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities, ground support equipment, e g , mobile transporters, and simulators

For related information see also *09 Research and Support Facilities (Air)*

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters, manned orbital laboratories, reusable vehicles, and space stations

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e g , shuttle operations, and rescue techniques

For related information see also *03 Air Transportation and Safety* and *85 Urban Technology and Transportation*

17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry, space communications networks, astronavigation, and radio blackout

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications*

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control, and attitude control

For life support systems see *54 Man/System Technology and Life Support* For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics*

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines, and spacecraft auxiliary power sources

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general), composite materials, inorganic and physical chemistry, metallic materials, nonmetallic materials, and propellants and fuels

23 CHEMISTRY AND MATERIALS (GENERAL)

Includes biochemistry and organic chemistry

24 COMPOSITE MATERIALS

Includes laminates

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography, combustion theory, electrochemistry, and photochemistry

For related information see also *77 Thermodynamics and Statistical Physics*

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion, and metallurgy

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters, and oxidizers, storage and handling, and aircraft fuels

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*

ENGINEERING

Includes engineering (general), communications, electronics and electrical engineering, fluid mechanics and heat transfer, instrumentation and photography, lasers and masers, mechanical engineering, quality assurance and reliability, and structural mechanics

For related information see also *Physics*

31 ENGINEERING (GENERAL)

Includes vacuum technology, control engineering, display engineering, and cryogenics

32 COMMUNICATIONS

Includes land and global communications, communications theory, and optical communications

For related information see also *04 Aircraft Communications and Navigation* and *17 Spacecraft Communications, Command and Tracking*

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability, components, e.g., tunnel diodes and transistors, microminiaturization, and integrated circuitry

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers, hydrodynamics, fluidics, mass transfer, and ablation cooling

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors, measuring instruments and gages, detectors, cameras and photographic supplies, and holography

For aerial photography see *43 Earth Resources*
For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*

36 LASERS AND MASERS

Includes parametric amplifiers

37 MECHANICAL ENGINEERING

Includes auxiliary systems (non-power), machine elements and processes, and mechanical equipment

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques, and quality control

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis, fatigue, and thermal stress

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*

GEOSCIENCES

Includes geosciences (general), earth resources, energy production and conversion, environment pollution, geophysics, meteorology and climatology, and oceanography

For related information see also *Space Sciences*

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES

Includes remote sensing of earth resources by aircraft and spacecraft, photogrammetry, and aerial photography

For instrumentation see *35 Instrumentation and Photography*

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells and batteries, global sources of energy, fossil fuels, geophysical conversion, hydroelectric power, and wind power

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *85 Urban Technology and Transportation*

45 ENVIRONMENT POLLUTION

Includes air, noise, thermal and water pollution, environment monitoring, and contamination control

46 GEOPHYSICS

Includes aeronomy, upper and lower atmosphere studies, ionospheric and magnetospheric physics, and geomagnetism

For space radiation see *93 Space Radiation*

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification

48 OCEANOGRAPHY

Includes biological, dynamic and physical oceanography, and marine resources

LIFE SCIENCES

Includes life sciences (general), aerospace medicine, behavioral sciences, man/system technology and life support, and planetary biology

51 LIFE SCIENCES (GENERAL)

Includes genetics

52 AEROSPACE MEDICINE

Includes physiological factors, biological effects of radiation, and weightlessness

53 BEHAVIORAL SCIENCES

Includes psychological factors, individual and group behavior, crew training and evaluation, and psychiatric research

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering, biotechnology, and space suits and protective clothing

55 PLANETARY BIOLOGY

Includes exobiology, and extraterrestrial life

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general), computer operations and hardware, computer programming and software, computer systems, cybernetics, numerical analysis, statistics and probability, systems analysis, and theoretical mathematics

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes computer graphics and data processing
For components see *33 Electronics and Electrical Engineering*

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, and algorithms

62 COMPUTER SYSTEMS

Includes computer networks

63 CYBERNETICS

Includes feedback and control theory
For related information see also *54 Man/System Technology and Life Support*

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing, Monte Carlo method, and stochastic processes

66 SYSTEMS ANALYSIS

Includes mathematical modeling, network analysis, and operations research

67 THEORETICAL MATHEMATICS

Includes topology and number theory

PHYSICS

Includes physics (general), acoustics, atomic and molecular physics, nuclear and high-energy physics, optics, plasma physics, solid-state physics, and thermodynamics and statistical physics

For related information see also *Engineering*

70 PHYSICS (GENERAL)

For geophysics see *46 Geophysics* For astrophysics see *90 Astrophysics* For solar physics see *92 Solar Physics*

71 ACOUSTICS

Includes sound generation, transmission, and attenuation

For noise pollution see *45 Environment Pollution*

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure and molecular spectra

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles, and reactor theory

For space radiation see *93 Space Radiation*

74 OPTICS

Includes light phenomena

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion

For ionospheric plasmas see *46 Geophysics* For space plasmas see *90 Astrophysics*

76 SOLID-STATE PHYSICS

Includes superconductivity

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics, and Bose and Fermi statistics

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*

SOCIAL SCIENCES

Includes social sciences (general), administration and management, documentation and information science, economics and cost analysis, law and political science, and urban technology and transportation

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information storage and retrieval technology, micrography, and library science

For computer documentation see *61 Computer Programming and Software*

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies

84 LAW AND POLITICAL SCIENCE

Includes space law, international law, international cooperation, and patent policy

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems, technology transfer, technology assessment, and surface and mass transportation

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*

SPACE SCIENCES

Includes space sciences (general), astronomy, astrophysics, lunar and planetary exploration, solar physics, and space radiation

For related information see also *Geosciences*

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio and gamma-ray astronomy, celestial mechanics, and astrometry

90 ASTROPHYSICS

Includes cosmology, and interstellar and interplanetary gases and dust

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology, and manned and unmanned flights

For spacecraft design see *18 Spacecraft Design, Testing and Performance* For space stations see *15 Launch Vehicles and Space Vehicles*

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots

93 SPACE RADIATION

Includes cosmic radiation, and inner and outer earth's radiation belts

For biological effects of radiation see *52 Aerospace Medicine* For theory see *73 Nuclear and High-Energy Physics*

GENERAL

99 GENERAL

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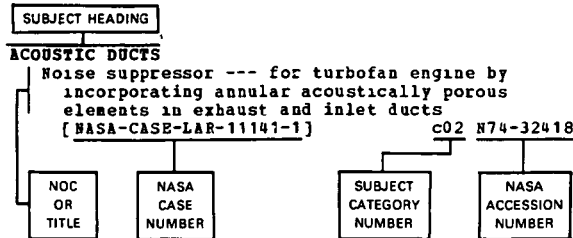
Subject Index

NASA PATENT ABSTRACTS BIBLIOGRAPHY

JANUARY 1978

Section 2

Typical Subject Index Listing



The subject heading is the key to the subject content of the document. A brief description of the document e.g. title title plus a title extension or Notation of Content (NOC) is included for each subject entry to indicate the subject heading context. These descriptions are arranged under each subject heading in ascending accession number order. The NASA Case Number serves as the prime access number to the patent documents. The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The NASA accession number denotes the number by which the citation is identified within the subject category.

A

ABLATION

- Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding [NASA-CASE-XMS-02677] c31 N70-42075
- Hypersonic test facility for studying ablation in models under high pressure and high temperature [NASA-CASE-XLA-00378] c11 N71-15925
- Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure [NASA-CASE-XLA-05378] c11 N71-21475
- Ablation sensor for measuring char layer recession rate using electric wires [NASA-CASE-XLA-01794] c33 N71-21586
- Ablation sensor for measuring surface ablation rate of material on vehicles entering earth's atmosphere on entry into planetary atmospheres [NASA-CASE-XLA-01791] c14 N71-22991
- Ablative system with liquid carrying ablative material bodies and forming self-replacing ablative surface [NASA-CASE-LEW-10359] c33 N72-25911

ABLATIVE MATERIALS

- Filling honeycomb matrix with deaerated paste filler [NASA-CASE-XMS-01108] c15 N69-24322
- Sensor device with switches for measuring surface recession of charring and noncharring ablators [NASA-CASE-XLA-01781] c14 N69-39975
- Vacuum method for molding thermosetting compounds used as ablative materials [NASA-CASE-XLA-01091] c15 N71-10672
- Ablative resins used for retarding regression in ablative material [NASA-CASE-XLE-05913] c33 N71-14032
- Design, development, and characteristics of ablation structures [NASA-CASE-XMS-01816] c33 N71-15623
- Method and apparatus for fabrication of heat insulating and ablative reentry structure [NASA-CASE-XMS-02009] c33 N71-20834
- Production and application of sprayable fiber reinforced ablation material [NASA-CASE-XLA-04251] c18 N71-26100
- Ablative heat shield for protection from aerodynamic heating of reentry spacecraft [NASA-CASE-MSC-12143-1] c33 N72-17947
- Ablative system with liquid carrying ablative material bodies and forming self-replacing

- ablative surface [NASA-CASE-LEW-10359] c33 N72-25911
- Carrier liquid system containing bodies of ablative material [NASA-CASE-LEW-10359-2] c33 N73-25952
- Ablation article and surface for analyzing flow transition on ablative surface [NASA-CASE-LAR-10439-1] c33 N73-27796
- Dual measurement ablation sensor [NASA-CASE-LAR-10105-1] c34 N74-15652
- Intumescent-ablator coatings using endothermic fillers [NASA-CASE-ARC-11043-1] c34 N77-14372
- Sprayable low density ablator [NASA-CASE-MPS-23506-1] c24 N77-15105

ABORT APPARATUS

- Coupling device for linear shaped charge for space vehicle abort system [NASA-CASE-XLA-00189] c33 N70-36846

ABRASION RESISTANCE

- Zinc dust formulation for abrasion resistant steel coatings [NASA-CASE-GSC-10361-1] c18 N72-23581
- Improved nozzle for use with abrasive and/or corrosive materials [NASA-CASE-NPO-13823-1] c37 N77-17466
- Abrasion resistant coatings for plastic surfaces [NASA-CASE-ARC-10915-3] c24 N77-24200

ABSORBENTS

- Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions [NASA-CASE-XMS-01492] c05 N70-41297
- Fluid flow control valve for regulating fluids in molecular quantities [NASA-CASE-XLE-00703] c15 N71-15967
- Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material [NASA-CASE-MPS-18100] c15 N72-11390
- Protein sterilization of firefly luciferase without denaturation [NASA-CASE-GSC-10225-1] c06 N73-27086
- Oil and fat absorbing polymers [NASA-CASE-NPO-11609-2] c27 N77-31308

ABSORBERS (MATERIALS)

- Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures [NASA-CASE-XMS-05303] c07 N69-27462
- Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator [NASA-CASE-LAR-10180-1] c06 N71-13461
- Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal [NASA-CASE-MPS-14711] c15 N71-26185
- Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature [NASA-CASE-XMF-04208] c33 N71-29051
- Aldehyde-containing urea-absorbing polysaccharides [NASA-CASE-NPO-13620-1] c27 N77-30236

ABSORPTION CROSS SECTIONS

- Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration [NASA-CASE-MSC-12280] c27 N71-16348

ABSORPTIVITY

- Detector absorptivity measuring method and apparatus [NASA-CASE-LAR-10907-1] c35 N76-29551

SUBJECT

AC GENERATORS

Alternating current signal generator providing plurality of amplitude modulated output signals
[NASA-CASE-XNP-05612] c09 N69-21468

Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890

Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XLE-02823] c09 N71-23443

ACCELERATION

Single grid accelerator system for electron bombardment type ion thruster
[NASA-CASE-XLE-10453-2] c28 N73-27699

ACCELERATION (PHYSICS)

Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815

Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
[NASA-CASE-XMF-00424] c11 N70-38196

Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881

Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169

G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c06 N74-27872

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381

A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787

ACCELERATION PROTECTION

Astronaut restraint suit for high acceleration protection
[NASA-CASE-XAC-00405] c05 N70-41819

ACCELERATION STRESSES (PHYSIOLOGY)

Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881

ACCELERATION TOLERANCE

Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185

ACCELERATORS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071

Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417

ACCELEROMETERS

Superconductive accelerometer employing variable force principle to determine acceleration of bodies
[NASA-CASE-XMF-01099] c14 N71-15969

Describing device for velocity control of electromechanical drive mechanism of scanning mirror of interferometer
[NASA-CASE-XGS-03532] c14 N71-17627

Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265

Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410

Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c35 N74-15094

Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c17 N76-29347

ACCEPTOR MATERIALS

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c33 N76-31409

ACCUMULATORS

Direct radiation cooling of linear beam collector tubes
[NASA-CASE-XNP-09227] c15 N69-24319

Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992

Small plasma probe using tungsten wire collector in tubular shield
[NASA-CASE-XLE-02578] c25 N71-20747

Electrostatic charged particle collector containing stacked electrodes for microwave tube
[NASA-CASE-LZW-11192-1] c09 N73-13208

Accumulator
[NASA-CASE-MPS-19287-1] c34 N77-30399

ACETALS

Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243

ACETYLENE

Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500

ACOUSTIC ATTENUATION

Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432

ACOUSTIC DUCTS

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418

ACOUSTIC IMPEDANCE

Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733

ACOUSTIC MEASUREMENTS

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232

A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621

Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388

Differential sound level meter
[NASA-CASE-LAR-12106-1] c35 N77-23441

ACOUSTIC PROPAGATION

Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c33 N77-13335

ACOUSTIC PROPERTIES

Development of wind tunnel microphone structure to minimize effects of vibrations and eliminate unwanted signals in microphone output
[NASA-CASE-XNP-00250] c11 N71-28779

Acoustical transducer calibrating system including differential pressure activating device
[NASA-CASE-FRC-10060-1] c14 N73-27379

ACOUSTICAL HOLOGRAPHY

Hybrid holographic non-destructive test system --- optical and acoustical methods capable of detecting flaws in materials
[NASA-CASE-MPS-23114-1] c35 N76-24529

ACOUSTICS

Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c71 N76-18886

ACOUSTO-OPTICS

Acoustic vibration test apparatus for wiring harnesses
[NASA-CASE-MSC-15158-1] c14 N72-17325

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c35 N77-11363

Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c35 N77-14411

ACRYLATES

Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032

Durable antistatic coating for polymethylmethacrylate

- [NASA-CASE-NPO-13867-1] c27 N77-22257
ACRYLIC RESINS
 Abrasion resistant coatings for plastic surfaces
 [NASA-CASE-ARC-10915-3] c24 N77-24200
ACTIVATION ENERGY
 Heat activated emf cells with aluminum anode
 [NASA-CASE-LEW-11359] c03 N71-28579
 Heat activated cell with aluminum anode
 [NASA-CASE-LEW-11359-2] c03 N72-20034
ACTUATOR DISKS
 Cryogenic gyroscope housing --- with annular
 disks for gas spin-up
 [NASA-CASE-MFS-21136-1] c35 N74-18323
ACTUATORS
 Electromechanical actuator and its use in rocket
 thrust control valve
 [NASA-CASE-XNP-05975] c15 N69-23185
 Power controlled bimetallic electromechanical
 actuator for accurate, timely, and reliable
 response to remote control signal
 [NASA-CASE-XNP-09776] c09 N69-39929
 Patent data on gas actuated bolt disconnect
 assembly
 [NASA-CASE-XLA-00326] c03 N70-34667
 Hermetically sealed explosive release mechanism
 for actuator device
 [NASA-CASE-XGS-00824] c15 N71-16078
 Burst diaphragm flow initiator for installation
 in short duration wind tunnels
 [NASA-CASE-MFS-12915] c11 N71-17600
 Hand controller operable about three
 respectively perpendicular axes and capable of
 actuating signal generators for attitude
 control devices
 [NASA-CASE-XMS-07487] c15 N71-23255
 Mechanical actuator wherein linear motion
 changes to rotational motion
 [NASA-CASE-XGS-04548] c15 N71-24045
 Hydraulic actuator design for space deployment
 of heat radiators
 [NASA-CASE-MSC-11817-1] c15 N71-26611
 Electromechanical control actuator system using
 double differential screws
 [NASA-CASE-ERC-10022] c15 N71-26635
 System to control speed of hydraulically movable
 members by limiting energy applied to
 actuators with hydraulic servo loop
 [NASA-CASE-ARC-10131-1] c15 N71-27754
 Zero power telemetry actuated switch for
 biomedical equipment
 [NASA-CASE-ARC-10105] c09 N72-17153
 Mechanically operated hand which can depress
 trigger using touch control device
 [NASA-CASE-MFS-20413] c15 N72-21463
 Hermetically sealed elbow actuator for use in
 severe environments
 [NASA-CASE-MFS-14710] c09 N72-22195
 Characteristics of lightweight actuator for
 imparting linear motion using elongated output
 shaft
 [NASA-CASE-NPO-11222] c15 N72-25456
 Rotary actuator for use in environments with no
 rolling and sliding friction
 [NASA-CASE-NPO-10244] c15 N72-26371
 Gas-operated actuator with cyclic motion of
 expansion chamber
 [NASA-CASE-NPO-11340] c15 N72-33477
 Redundant hydraulic control system for actuators
 with three main valve combination
 [NASA-CASE-MFS-20944] c15 N73-13466
 Actuator operated by electrolytic drive gas
 generator and evacuator
 [NASA-CASE-NPO-11369] c15 N73-13467
 Manual actuator --- for spacecraft exercising
 machines
 [NASA-CASE-MFS-21481-1] c37 N74-18127
 Optically actuated two position mechanical mover
 [NASA-CASE-NPO-13105-1] c37 N74-21060
 Miniature hydraulic actuator --- for control
 surfaces on airfoils
 [NASA-CASE-LAR-11522-1] c34 N74-34881
 Dual output variable pitch turbofan actuation
 system
 [NASA-CASE-LEW-12419-1] c07 N77-14025
 Actuator device for artificial leg
 [NASA-CASE-MFS-23225-1] c52 N77-14735
 Actuator mechanism
 [NASA-CASE-GSC-11883-2] c37 N77-15400
 Cyclic bi-directional rotary actuator
 [NASA-CASE-GSC-11883-1] c37 N77-19458
ADAPTERS
 Camera adapter design for image magnification
 including lens and illuminator
 [NASA-CASE-XNP-03844-1] c14 N71-26474
ADAPTIVE CONTROL
 Self testing and repairing computer comprising
 control and diagnostic unit and rollback
 points for error correction
 [NASA-CASE-NPO-10567] c08 N71-24633
 Synchronous dc direct-drive system comprising
 multiple-loop hybrid control system
 controlling load directly connected to actuator
 [NASA-CASE-GSC-10065-1] c10 N71-27136
 Versatile ergometer with work load control
 [NASA-CASE-MFS-21109-1] c05 N73-27941
 Adaptive voting computer system
 [NASA-CASE-MSC-13932-1] c62 N74-14920
ADAPTIVE FILTERS
 Adaptive notch filter, using modulation
 techniques for reversed phase noise signal
 [NASA-CASE-XNP-01892] c10 N71-22986
ADDING CIRCUITS
 Circuit diagram and operation of full binary adder
 [NASA-CASE-XGS-00689] c08 N70-34787
 Error correction circuitry for binary signal
 channels
 [NASA-CASE-XNP-03263] c09 N71-18843
ADDITIVES
 Ammonium perchlorate composite propellant with
 organic Cu/II/ chelate catalytic additive
 [NASA-CASE-LAR-10173-1] c27 N71-14090
 Tantalum modified ferritic iron base alloys ---
 for use in high temperature environments
 [NASA-CASE-LEW-12095-1] c26 N76-17233
ADENOSINE TRIPHOSPHATE
 Use of enzyme hexokinase and glucose to reduce
 inherent light levels of ATP in luciferase
 compositions
 [NASA-CASE-XGS-05533] c04 N69-27487
 Detection instrument for light emitted from ATP
 biochemical reaction
 [NASA-CASE-XGS-05534] c23 N71-16355
 Describing method for lyophilization of
 luciferase containing mixtures for use in life
 detection reactions
 [NASA-CASE-XGS-05532] c06 N71-17705
 Automatic device for assaying urine on bacterial
 adenosine triphosphate content
 [NASA-CASE-GSC-11169-2] c05 N73-32011
 Application of luciferase assay for ATP to
 antimicrobial drug susceptibility
 [NASA-CASE-GSC-12039-1] c51 N77-22794
ADHESION
 Tool for mounting and removing studs with
 adhesive coated head portion
 [NASA-CASE-MFS-20299] c15 N72-11392
ADHESION TESTS
 Apparatus for determining quality of bond
 between high density material and low density
 material
 [NASA-CASE-MFS-13686] c15 N71-18132
ADHESIVE BONDING
 Fabrication of solar cell banks for attaching
 solar cells to base members or substrates
 [NASA-CASE-XNP-00826] c03 N71-20895
 Method for honeycomb panel bonding by
 thermosetting film adhesive with electrical
 heat means
 [NASA-CASE-XNP-01402] c18 N71-21651
 Etching aluminum alloys with aqueous solution
 containing sulfuric acid, hydrofluoric acid,
 and an alkali metal dischromate for adhesive
 bonding
 [NASA-CASE-XNP-02303] c17 N71-23828
 Adhesive spray process for attaching biomedical
 skin electrodes
 [NASA-CASE-XPR-07658-1] c05 N71-26293
 Bonding of sapphire to sapphire by eutectic
 mixture of aluminum oxide and zirconium oxide
 [NASA-CASE-GSC-11577-1] c37 N75-15992
 Thermal insulation attaching means
 [NASA-CASE-MSC-12619-1] c39 N75-21671
 Weld-bonded titanium structures
 [NASA-CASE-LAR-11549-1] c37 N77-11397
 Surface finishing --- of metal airfoils by
 adhesive bonding
 [NASA-CASE-MSC-12631-2] c05 N77-31131

- Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237
- ADHESIVES**
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c27 N77-15192
- ADJUSTING**
Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XMF-00480] c14 N70-39898
Slotted fine-adjustment support for optical devices
[NASA-CASE-MFS-20249] c15 N72-11386
Adjustable support device with jacket screw for altering distance between base and supported member
[NASA-CASE-NPO-10721] c15 N72-27484
Clock setter
[NASA-CASE-LAR-11458-1] c35 N76-16392
- AERIAL RUDDERS**
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-1] c08 N77-22147
- AERODYNAMIC BRAKES**
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c02 N74-10034
- AERODYNAMIC CHARACTERISTICS**
Variable aspect ratio and variable sweep delta wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087
Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c02 N76-22154
- AERODYNAMIC COEFFICIENTS**
Nondestructive method for instrumenting helicopter rotor blades
[NASA-CASE-LAR-11201-1] c35 N77-22452
- AERODYNAMIC CONFIGURATIONS**
Supersonic aircraft configuration providing for variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
Variable geometry rotor system for direct control over wake vortex
[NASA-CASE-LAR-10557] c02 N72-11018
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c05 N74-10907
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c07 N74-28226
Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027
An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135
- AERODYNAMIC HEATING**
Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles
[NASA-CASE-XLA-00892] c33 N71-17897
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
Ablative heat shield for protection from aerodynamic heating of reentry spacecraft
[NASA-CASE-MSC-12143-1] c33 N72-17947
- AERODYNAMIC LOADS**
Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856
- AERODYNAMIC NOISE**
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c09 N76-23273
- AERODYNAMIC STABILITY**
Aerodynamically stable meteorological balloon using surface roughness effect
[NASA-CASE-XMF-04163] c02 N71-23007
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029
- AERONAUTICAL ENGINEERING**
Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816
- AEROSOLS**
Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MFS-20829] c12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509
A method for aerosol analysis by thermoluminescence
[NASA-CASE-LAR-12046-1] c45 N77-17609
- AEROSPACE ENGINEERING**
Modifying existing solar cells for temperature control
[NASA-CASE-NPO-10109] c03 N71-11049
Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214
- AEROSPACE ENVIRONMENTS**
High voltage insulators for direct current in acceleration system of electrostatic thruster
[NASA-CASE-XLE-01902] c28 N71-10574
Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772
Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMF-03988] c15 N71-21403
Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990
Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810

- Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-XNP-05524] c33 N71-24876
- Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
- High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
- Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c54 N76-14804
- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c09 N77-12070
- AEROSPACE MEDICINE**
- Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329
- An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c54 N77-14743
- AEROSPACE VEHICLES**
- Aerospace configuration with low and high aspect ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
- Landing pad assembly for aerospace vehicles
[NASA-CASE-XNP-02853] c31 N70-36654
- Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
- Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
- Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
- AEROSPACEPLANES**
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XNP-02263] c05 N74-10907
- AFTERBODIES**
- Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
- AFTERBURNING**
- Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374
- AGING (MATERIALS)**
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
- AGRICULTURE**
- Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701
- AILERONS**
- Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
- AIR**
- Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
- Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710
- AIR CONDITIONING EQUIPMENT**
- Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XNP-03212] c15 N71-22721
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c31 N74-27902
- AIR COOLING**
- Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLB-00092] c15 N70-33264
- AIR FILTERS**
- Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457
- AIR FLOW**
- Wind tunnel air flow modulating device and apparatus for selectively generating wave motion in wind tunnel airstream
[NASA-CASE-XLA-00112] c11 N70-33287
- Photographing surface flow patterns on wind tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366
- Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LEW-10286-1] c28 N71-28915
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144
- Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c31 N74-27902
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456
- Smoke generator
[NASA-CASE-ARC-10905-1] c37 N77-13418
- AIR INTAKES**
- Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
- Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736
- AIR LOCKS**
- Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
- System for removing and repairing spacecraft control thrusters by use of portable air locks
[NASA-CASE-MFS-20325] c28 N71-27095
- Airlock for waste transferal from pressurized enclosure aboard space vehicle to waste receiver at negative pressure
[NASA-CASE-MFS-20922] c31 N72-20840
- Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136
- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c31 N74-27900
- AIR POLLUTION**
- Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator
[NASA-CASE-LAR-10180-1] c06 N71-13461
- Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-IGS-01971] c15 N71-15922
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c37 N77-13426
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497
- AIR PURIFICATION**
- Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
- Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XNP-03212] c15 N71-22721

AIR SAMPLING

Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401

AIR TRAFFIC CONTROL

Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
System and method for position locating for air traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080

AIRBORNE EQUIPMENT

Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063

AIRBORNE/SPACEBORNE COMPUTERS

Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914

AIRCRAFT

Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483

AIRCRAFT ACCIDENTS

Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948

AIRCRAFT ANTENNAS

Thin conformal antenna array for microwave power conversion
[NASA-CASE-NPO-13886-1] c32 N77-11269

AIRCRAFT APPROACH SPACING

Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631

AIRCRAFT COMPARTMENTS

Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027

AIRCRAFT CONFIGURATIONS

Variable sweep wing configuration for supersonic aircraft
[NASA-CASE-XLA-00230] c02 N70-33255
Television simulation for aircraft and space flight
[NASA-CASE-XFR-03107] c09 N71-19449
Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132

AIRCRAFT CONTROL

Development and characteristics of control system for flexible wings
[NASA-CASE-XLA-06958] c02 N71-11038
Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for

precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
Development of thrust control system for application to control of aircraft and spacecraft

[NASA-CASE-MSC-13397-1] c21 N72-25595
Aircraft control system for rotary wing aircraft
[NASA-CASE-ERC-10439] c02 N73-19004

Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474

Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176

AIRCRAFT DESIGN

Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243

Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMP-02263] c05 N74-10907

High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c05 N76-29217

Supersonic transport --- aircraft design
[NASA-CASE-LAR-11932-1] c05 N76-31219

Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027

AIRCRAFT DETECTION

Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
[NASA-CASE-ERC-10412-1] c09 N73-12211

AIRCRAFT ENGINES

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418

Auxiliary power system for actively cooled aircraft
[NASA-CASE-LAR-11626-1] c34 N77-12332

Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118

AIRCRAFT EQUIPMENT

Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437

AIRCRAFT GUIDANCE

Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c04 N74-13420

AIRCRAFT HAZARDS

Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLB-00388] c28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS

Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793

AIRCRAFT INSTRUMENTS

Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807

Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824

Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157

- Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
- Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
- Aircraft horizon and vertical indicator
[NASA-CASE-ERC-10392] c21 N73-14692
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
- Turbulence intensity indicator
[NASA-CASE-LAR-11833-1] c06 N76-31229
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c03 N76-32140
- AIRCRAFT LANDING**
- Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
- Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
- Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c09 N76-24280
- AIRCRAFT LAUNCHING DEVICES**
- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c09 N77-19076
- AIRCRAFT MANEUVERS**
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
- AIRCRAFT MODELS**
- Free flight suspension system for use with aircraft models in wind tunnel tests
[NASA-CASE-XLA-00939] c11 N71-15926
- Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c02 N76-16014
- AIRCRAFT NOISE**
- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232
- AIRCRAFT PERFORMANCE**
- Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
- AIRCRAFT PILOTS**
- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597
- AIRCRAFT SAFETY**
- Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
- Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421
- AIRCRAFT STABILITY**
- Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
- Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
- AIRCRAFT STRUCTURES**
- Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
- Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XPR-03802] c33 N71-23085
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c35 N74-13129
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001
- AIRCRAFT WAKES**
- Vortex attenuation method --- for multi-engine aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045
- AIRFOIL FENCES**
- Smokestack mounted airfoil
[NASA-CASE-LAR-11669-1] c34 N76-13419
- AIRFOILS**
- Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13470
- Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411
- Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c34 N74-34881
- Flow separation detector
[NASA-CASE-ARC-11046-1] c35 N76-28535
- Surface finishing --- of metal airfoils by adhesive bonding
[NASA-CASE-MSC-12631-2] c05 N77-31131
- AIRFRAMES**
- Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
- AIRSPERD**
- Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
- ALCOHOLS**
- New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NPO-10714] c06 N69-31244
- Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
- ALDEHYDES**
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMF-08655] c06 N71-11239
- Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMF-08656] c06 N71-11242
- Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740
- ALIGNMENT**
- Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XMF-00480] c14 N70-39898
- Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XMF-01452] c15 N70-41371
- Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
- Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XMF-00684] c21 N71-21688
- Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-XMS-04178] c15 N71-22798
- Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-MPO-11087] c23 N71-29125
- Measuring roll alignment of test body with respect to reference body
[NASA-CASE-GSC-10514-1] c14 N72-20379
- Design of precision vertical alignment system using laser with gravitationally sensitive

cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
Spacecraft docking and alignment system ---
using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
Method of constructing dished ion thruster grids
to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c74 N76-22993
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workpiece
[NASA-CASE-LAR-11658-1] c37 N77-14478
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[NASA-CASE-MFS-15218-1] c37 N77-19457

ALKALI METALS
Ultraviolet radiation resistant alkali-metal
silicate coatings for temperature control of
spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Analytical test apparatus and method for
determining oxygen content in alkali liquid
metal
[NASA-CASE-XLE-01997] c06 N71-23527
Composition and production method of alkali
metal silicate paint with ultraviolet
reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
Design and characteristics of heat activated
electric cell with anode made from one or more
alkali metals and cathode made from oxidizing
material
[NASA-CASE-LEW-11358] c03 N71-26084
Method for producing alkali metal dispersions of
high purity
[NASA-CASE-XNP-08876] c17 N73-28573
Process for preparing higher oxides of the
alkali and alkaline earth metals --- using
radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178

ALKALINE BATTERIES
Method for determining state of charge of alkali
batteries by using tritium as tracer
[NASA-CASE-XNP-01464] c03 N71-10728
Alkaline-type coulometer cell for primary charge
control in secondary battery recharge circuits
[NASA-CASE-XGS-05434] c03 N71-20491
Flexible formulated plastic separators for
alkaline batteries
[NASA-CASE-LEW-12363-1] c44 N76-19552
Inorganic-organic battery separator for alkaline
batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the
alkali and alkaline earth metals --- using
radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178

ALKYL COMPOUNDS
Preparation of fluorohydroxy ethers by reacting
fluoroalkylene oxides with alkali salt of
polyfluoroalkylene diol
[NASA-CASE-MFS-10507] c06 N73-30101

ALLOYS
Brazing alloy adapted for brazing corrosion
resistant steel to refractory metals, also for
brazing refractory metals to other refractory
metals
[NASA-CASE-XNP-03063] c17 N71-23365
Metal alloy bearing materials for space
applications
[NASA-CASE-XLE-05033] c15 N71-23810
High thermal emittance black surface coatings
and process for applying to metal and metal
alloy surfaces used in radiative cooling of
spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Adjustable rigid mount for trihedral mirror
formed of alloy with small coefficient of
thermal expansion supporting screws and
spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Two-step diffusion welding process of
unrecrystallized alloys
[NASA-CASE-LEW-11388-1] c15 N73-32358
Brazing alloy binder
[NASA-CASE-XNP-05868] c26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127

ALPHANUMERIC CHARACTERS

X-Y alphanumeric character generator for
oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517

ALTERNATING CURRENT

Characteristics of high power, low distortion,
alternating current power amplifier
[NASA-CASE-LAR-10218-1] c09 N70-34559
Frequency control network for current feedback
oscillators converting dc voltage to ac or
higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Blood pressure measuring system for separately
recording dc and ac pressure signals of
Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Solid state circuit for switching alternating
current input signal as function of direct
current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Device for voltage conversion using controlled
pulse widths and arrangements to generate ac
output voltage
[NASA-CASE-MFS-10068] c10 N71-25139
Inverters for changing direct current to
alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
Dc to ac to dc converter with transistor driven
synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
Power factor control system for ac induction
motors
[NASA-CASE-MFS-23280-1] c33 N76-28471

ALTITUDE

Combined optical attitude and altitude
indicating instrument for use in aircraft or
spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268

ALTITUDE CONTROL

Ambient atmospheric pressure sensing device for
determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925

ALUMINUM

Joining aluminum to stainless steel by bonding
aluminum coatings onto titanium coated
stainless steel and brazing aluminum to
aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Low concentration alkaline solution treatment of
aluminum with metal phosphate surface coatings
to improve chemical bonding and reduce coating
weight
[NASA-CASE-XLA-01995] c18 N71-23047
Etching aluminum alloys with aqueous solution
containing sulfuric acid, hydrofluoric acid,
and an alkali metal dischromate for adhesive
bonding
[NASA-CASE-XNP-02303] c17 N71-23828
Process for producing dispersion strengthened
nickel with aluminum comprising metallic
matrices embedded with oxides or other
hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
Method of plating copper on aluminum to permit
conventional soldering of structural aluminum
bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903
Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
Method of preparing graphite reinforced aluminum
composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
Method of fluxless brazing and diffusion bonding
of aluminum containing components
[NASA-CASE-MSC-14435-1] c37 N76-18455
Aluminum or copper substrate panel for selective
absorption of solar energy and the method of
producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610

ALUMINUM ALLOYS
High strength aluminum casting alloy for
cryogenic applications in aerospace engineering
[NASA-CASE-XNP-02786] c17 N71-20743

- Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dichromate for adhesive bonding
[NASA-CASE-XNP-02303] c17 N71-23828
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-NSC-19693-1] c26 N76-29401
- ALUMINUM COATINGS**
- Intermetallic chromium containing nickel aluminide for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c28 N74-33209
- Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c26 N75-19408
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
- ALUMINUM OXIDES**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
- ALUMINUM SILICATES**
- White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
- AMINES**
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XNP-08655] c06 N71-11239
- Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XNP-08652] c06 N71-11243
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086
- AMINO ACIDS**
- Amino acid analysis
[NASA-CASE-NFO-12130-1] c25 N75-14844
- AMMONIA**
- Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578
- AMMONIUM PERCHLORATES**
- Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
- AMPLIFICATION**
- Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
- Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782
- Diversity receiving system with diversity phase lock
[NASA-CASE-XGS-01222] c10 N71-20841
- Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
- Amplifying circuit with constant current source for accumulator load and high gain voltage amplification
[NASA-CASE-NPO-11023] c09 N72-17155
- AMPLIFIER DESIGN**
- Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c33 N74-21851
- Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407
- AMPLIFIERS**
- Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-XGS-02812] c09 N71-19466
- Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-IAC-05422] c04 N71-23185
- Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
- Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-IFR-07172] c05 N71-27234
- Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
- Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c33 N74-14939
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NFO-13490-1] c36 N76-31512
- AMPLITUDE DISTRIBUTION ANALYSIS**
- Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
- Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
- Analog to digital converter circuit for pulse height analysis
[NASA-CASE-XNP-00477] c08 N73-28045
- AMPLITUDE MODULATION**
- Alternating current signal generator providing plurality of amplitude modulated output signals
[NASA-CASE-XNP-05612] c09 N69-21468
- Development of demodulation system for removing amplitude modulation from two quadrature displaced data bearing signals
[NASA-CASE-XAC-04030] c10 N71-19472
- Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XMS-04269] c16 N71-22895
- Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021
- Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
- High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c32 N74-19788
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c33 N74-20860
- Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c36 N76-18427
- AMPLITUDES**
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[NASA-CASE-NPO-10169] c10 N71-24844
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[NASA-CASE-XNP-01097] c10 N71-16058
- Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
- Electronic divider and multiplier for analog electric signals
[NASA-CASE-IFR-05637] c09 N71-19480
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
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output angles for obtaining desired spatial attitude
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[NASA-CASE-NPO-10068] c08 N71-19288

Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435

Analog signal to discrete time converter
[NASA-CASE-ERC-10048] c09 N72-25251

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[NASA-CASE-GSC-12115-1] c62 N76-31946

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Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c74 N76-18913

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[NASA-CASE-XAC-00404] c08 N70-40125

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[NASA-CASE-XLA-00670] c08 N71-12501

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[NASA-CASE-XAC-04031] c08 N71-18594

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[NASA-CASE-XNP-04780] c08 N71-19687

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[NASA-CASE-NPO-10344] c10 N71-26544

Apparatus for automatically testing analog to digital converters for open and short circuits
[NASA-CASE-XLA-06713] c14 N71-28991

Wide range analog to digital converter with variable gain amplifier
[NASA-CASE-NPO-11018] c08 N72-21200

Analog to digital converter using offset voltage to eliminate errors
[NASA-CASE-MSC-13110-1] c08 N72-22163

Analog to digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166

Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
[NASA-CASE-NPO-11016] c08 N72-31226

Nonrecursive counting digital filter containing shift register
[NASA-CASE-NPO-11821-1] c08 N73-26175

Analog to digital converter circuit for pulse height analysis
[NASA-CASE-XNP-00477] c08 N73-28045

Analog to digital converter
[NASA-CASE-NPO-13385-1] c33 N76-18345

Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c60 N77-32731

ANALYZERS

Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199

Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754

Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c35 N76-15431

ANEMOMETERS

Anemometer with braking mechanism to prevent rotation of wind driven elements
[NASA-CASE-XNP-05224] c14 N71-23726

Maxometers for measuring peak wind speeds during severe environmental conditions
[NASA-CASE-NFS-20916] c14 N73-25460

ANGIOGRAPHY

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701

ANGLE OF ATTACK

Angle detector
[NASA-CASE-ARC-11036-1] c35 N77-11364

ANGLES (GEOMETRY)

Gage for measuring internal angle of flare on end of tube
[NASA-CASE-XNP-04415] c14 N71-24693

Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674

Rotating raster generator
[NASA-CASE-FRC-10071-1] c32 N74-20813

ANGULAR ACCELERATION

Strain gage accelerometer for angular acceleration measurement
[NASA-CASE-XMS-05936] c14 N70-41682

ANGULAR CORRELATION

Device for determining relative angular position of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490

ANGULAR MOMENTUM

Stretch Yo-Yo mechanism for reducing initial spin rate of space vehicle
[NASA-CASE-XGS-00619] c30 N70-40016

ANGULAR RESOLUTION

Characteristics and performance of electrical system to determine angular rotation
[NASA-CASE-XNP-00447] c14 N70-33179

ANGULAR VELOCITY

Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585

ANHYDRIDES

Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-NFS-22356-1] c23 N75-30256

ANILINE

Synthesis of high purity dianilinosilanes
[NASA-CASE-XNP-06409] c06 N71-23230

ANIMALS

Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c51 N74-15778

Tread drum for animals
[NASA-CASE-ARC-10917-1] c37 N76-20485

ANISOTROPIC MEDIA

Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188

ANNEALING

Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062

ANNULAR NOZZLES

Large area-ratio nozzles for rocket motor thrust chambers
[NASA-CASE-XLE-00145] c28 N70-36806

Electrostatic microthrust propulsion system with annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213

ANNULAR PLATES

Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939

ANODES

Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084

Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c44 N76-29699

- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386
- ANODIC COATINGS**
Anodizing method for providing metal surfaces with temperature reducing coatings against flames
[NASA-CASE-XLE-00035] c33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c20 N77-20162
- ANTENNA ARRAYS**
Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
Radio receiver with array of independently steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
Characteristics of antenna horn feeds consisting of central horn with overlapping peripheral horns
[NASA-CASE-GSC-10452] c07 N71-12396
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XNS-09610] c07 N71-24625
Development of electronic circuit for combining input signals on two separate antennas to form two processed signals
[NASA-CASE-MSC-12205-1] c07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching
[NASA-CASE-GSC-10220-1] c07 N71-27233
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-IGS-02290] c07 N71-28809
Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148
Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
Plural beam antenna with parabolic reflectors
[NASA-CASE-GSC-11013-1] c09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c33 N74-20860
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
Thin conformal antenna array for microwave power conversion
[NASA-CASE-NPO-13886-1] c32 N77-11269
Phase array antenna control
[NASA-CASE-MSC-14939-1] c33 N77-19320
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c32 N77-24340
- ANTENNA COMPONENTS**
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c33 N74-29556
- ANTENNA DESIGN**
Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-INP-01735] c07 N71-22750
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
Development of electronic circuit for combining input signals on two separate antennas to form two processed signals
[NASA-CASE-MSC-12205-1] c07 N71-27056
Development and characteristics of extensible dipole antenna using deformable tubular metallic strip element
[NASA-CASE-HQW-00937] c07 N71-28979
Development of method for suppressing excitation of electromagnetic surface waves on dielectric converter antenna
[NASA-CASE-XLA-10772] c07 N71-28980
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Collapsible high gain antenna which can be automatically expanded to operating state
[NASA-CASE-KSC-10392] c07 N73-26117
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c33 N75-19516
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c33 N76-32457
Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233
- ANTENNA FEEDS**
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285
Characteristics of antenna horn feeds consisting of central horn with overlapping peripheral horns
[NASA-CASE-GSC-10452] c07 N71-12396
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c32 N74-20863
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c32 N76-15329
Reflex feed system for dual frequency antenna
[NASA-CASE-NPO-14022-1] c32 N77-24338
- ANTENNA RADIATION PATTERNS**
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XNS-05303] c07 N69-27462
Multiple mode horn antenna with radiation pattern of equal beamwidths and suppressed sidelobes
[NASA-CASE-XNP-01057] c07 N71-15907
Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-IGS-02290] c07 N71-28809
Dielectric loaded aperture antenna with directive radiation pattern from waveguide
[NASA-CASE-LAR-11084-1] c09 N73-12216
System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365
Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233
- ANTENNAS**
Antenna design with self erecting mesh reflector
[NASA-CASE-IGS-09190] c31 N71-16102
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-NPS-20068] c07 N71-27191
Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127

ANTIFRICTION BEARINGS

- Development of hybrid bearing lubrication system with combination of standard type lubrication and magnetic flux field for earth atmosphere and space environment operation
[NASA-CASE-XNP-01641] c15 N71-22997
- Development of rolling element bearing for operation in ultrahigh vacuum environment
[NASA-CASE-XLE-09527-2] c15 N71-26189
- Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
- Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359
- Hollow high strength rolling elements for antifriction bearings fabricated from preformed components
[NASA-CASE-LEW-11026-1] c15 N73-33383

ANTI GRAVITY

- Anti-gravity device
[NASA-CASE-MFS-22758-1] c70 N75-26789

ANTIINFECTIVES AND ANTIBACTERIALS

- Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797

ANTIREFLECTION COATINGS

- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580

ANVILS

- Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446

APERTURES

- Apertured electrode focusing system for ion sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
- Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
- Apparatus for on-film optical recording of camera lens aperture and focus setting
[NASA-CASE-MSC-12363-1] c14 N73-26431
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c74 N75-12732
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408

APOLLO PROJECT

- Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012

APOLLO SPACECRAFT

- Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
- Energy absorbing crew couch strut for Apollo command module
[NASA-CASE-MSC-12279] c15 N72-17450

APPLICATIONS OF MATHEMATICS

- Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437

APPROACH INDICATORS

- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031

AQUEOUS SOLUTIONS

- Fuel system for thermal nuclear reactor which uses inorganic ion exchanger
[NASA-CASE-LEW-11645-2] c22 N73-28660
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c23 N75-14834
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245

ARC DISCHARGES

- Development of device to prevent high voltage arcing in electron beam welding
[NASA-CASE-XNP-08522] c15 N71-19486
- Direct current powered self repeating plasma accelerator with interconnected annular and

- linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c38 N74-15395
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385

ARC HEATING

- Magnetically diffused radial electric arc heater
[NASA-CASE-XLA-00330] c33 N70-34540
- Electric arc device for minimizing electrode ablation and heating gases to supersonic or hypersonic wind tunnel temperatures
[NASA-CASE-XAC-00319] c25 N70-41628
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071

ARC JET ENGINES

- Improving performance of magnetoplasmadynamic arc rocket engine
[NASA-CASE-LEW-11180-1] c25 N73-25760

ARC LAMPS

- Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-XNP-01058] c09 N71-12540
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c33 N77-21315
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c33 N77-21316
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386

ARC WELDING

- Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XNP-02039] c15 N71-15871
- Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
- Development of device to prevent high voltage arcing in electron beam welding
[NASA-CASE-XNP-08522] c15 N71-19486
- Development of apparatus for automatically changing carriage speed of welding machine to obtain constant speed of torch along work surface
[NASA-CASE-XNP-07069] c15 N71-23815
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c37 N75-19683

ARCHITECTURE

- Development of construction block in form of container folded from flat sheet and filled with solid material for architectural purposes
[NASA-CASE-MSC-12233-2] c32 N73-13921

ARM (ANATOMY)

- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
- An improved controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c54 N77-30751

ARMATURES

- Design and development of electric motor with stationary field and armature windings which operates on direct current
[NASA-CASE-XGS-05290] c09 N71-25999
- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c15 N72-20442
- Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-XGS-07805] c15 N72-33476

AROMATIC COMPOUNDS

- Aromatic polyimide preparation --- with low softening temperatures
[NASA-CASE-LAR-11372-1] c27 N74-19772
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
- A method of preparing aromatic polyimides having uniquely low softening temperatures
[NASA-CASE-LAB-11828-1] c23 N75-29181
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315

ARTERIES

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566

ARTIFICIAL CLOUDS

Chemical system for releasing barium to create ion clouds in upper atmosphere and interplanetary space
[NASA-CASE-LAR-10670-1] c06 N73-30097

ARTIFICIAL GRAVITY

Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776
Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881
Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750

ARTIFICIAL SATELLITES

Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324

ASBESTOS

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-HSC-12568-1] c24 N76-14204

ASPECT RATIO

Variable aspect ratio and variable sweep delta wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Supersonic aircraft configuration providing for variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178
Supersonic aircraft variable sweep wing planform for varying aspect ratio
[NASA-CASE-XLA-00350] c02 N70-38011

ASSEMBLIES

Multiple Belleville spring assembly with even load distribution
[NASA-CASE-XNP-00840] c15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c37 N77-32501

ASSEMBLING

Apparatus for assembling space structure
[NASA-CASE-HFS-23579-1] c12 N77-31213

ASTRONAUT LOCOMOTION

Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque
[NASA-CASE-XMS-09637-1] c05 N71-24730
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
A walking boot assembly
[NASA-CASE-ARC-11101-1] c54 N77-14742

ASTRONAUT MANEUVERING EQUIPMENT

Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XNP-07488] c11 N71-18773
Lightweight propulsion unit for movement of personnel and equipment across lunar surface
[NASA-CASE-HFS-20130] c28 N71-27585

ASTRONAUT PERFORMANCE

Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641

ASTRONAUT TRAINING

Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-XMS-02977] c11 N71-10746
Low and zero gravity simulator for astronaut training
[NASA-CASE-HFS-10555] c11 N71-19494
Apparatus for training astronaut crews to perform on simulated lunar surface under conditions of lunar gravity
[NASA-CASE-XMS-04798] c11 N71-21474

ASTRONAUTS

Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-HFS-21042] c07 N72-25171
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-HFS-21481-1] c37 N74-18127

ASTRONAVIGATION

Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621

ASTRONOMICAL PHOTOGRAPHY

Cameras for photographing meteors in selected sky area
[NASA-CASE-LAR-10226-1] c14 N73-19419

ASTRONOMICAL TELESCOPES

Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
Star image motion compensator using telescope for maintaining fixed images
[NASA-CASE-LAR-10523-1] c14 N72-22444
System for the measurement of ultra-low stray light levels --- light shields and baffles
[NASA-CASE-HFS-23513-1] c74 N77-14842
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c74 N77-30935

ATMOSPHERIC COMPOSITION

Design and development of two types of atmosphere sampling chambers
[NASA-CASE-NFO-11373] c13 N72-25323
Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-HQN-10037-1] c14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NFO-11919-1] c35 N74-11284

ATMOSPHERIC ENTRY

Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-IAC-02058] c02 N71-16087
Development of method for measuring electron density gradients of plasma sheath around space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015

ATMOSPHERIC ENTRY SIMULATION

Crossed-field plasma accelerator for laboratory simulation of atmospheric reentry conditions
[NASA-CASE-XLA-00675] c25 N70-33267
Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
[NASA-CASE-LAR-11138] c12 N71-20436

ATMOSPHERIC PHYSICS

Development and characteristics of apparatus for measuring intensity of electric field in atmosphere
[NASA-CASE-RSC-10730-1] c14 N73-32318

ATMOSPHERIC RADIATION

Radiometric measuring system for solar activity and atmospheric attenuation and emission
[NASA-CASE-ERC-10276] c14 N73-26432

ATMOSPHERIC SCATTERING

Clear air turbulence detector
[NASA-CASE-HFS-21244-1] c36 N75-15028

ATMOSPHERIC TURBULENCE

Passive optical wind and turbulence remote detection system
[NASA-CASE-XMF-14032] c20 N71-16340

Focused laser Doppler velocimeter
[NASA-CASE-MPS-23178-1] c35 N77-10493

ATOMIZERS

Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer
[NASA-CASE-WPO-10467] c23 N71-26654

ATS

Doppler frequency shift correction device for multiplex communication with Applications Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978

ATTACHMENT

Silicon carbide backward diode with coated lead attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150

ATTENUATORS

Rotary vane attenuator with two stators and intermediary rotor, using resistive and orthogonally disposed cards
[NASA-CASE-WPO-11418-1] c14 N73-13420

ATTITUDE (INCLINATION)

Analog spatial maneuver computer with three output angles for obtaining desired spatial attitude
[NASA-CASE-GSC-10880-1] c08 N72-11172

Spacecraft attitude sensing system design with narrow field of view sensor rotating about spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640

Interferometer mirror tilt correcting system
[NASA-CASE-WPO-13687-1] c35 N76-14433

ATTITUDE CONTROL

Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499

Unitary three-axis controller for flight vehicles within or outside atmosphere
[NASA-CASE-IXP-00181] c21 N70-33279

Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-IGS-00466] c21 N70-34297

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[NASA-CASE-XMF-00465] c21 N70-35395

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[NASA-CASE-XLA-05464] c21 N71-14132

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[NASA-CASE-XGS-04393] c21 N71-14159

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[NASA-CASE-XLA-01163] c21 N71-15582

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[NASA-CASE-XLE-03583] c31 N71-17629

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[NASA-CASE-GSC-11079-1] c37 N75-18574
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[NASA-CASE-LEW-11930-2] c24 N76-26282
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[NASA-CASE-GSC-11978-1] c37 N77-17464
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[NASA-CASE-LEW-12569-1] c37 N77-24496
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[NASA-CASE-LPW-11158-1] c37 N77-28486
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[NASA-CASE-LEW-12527-1] c37 N77-32500
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[NASA-CASE-LEW-12477-1] c37 N77-32501
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[NASA-CASE-XFR-00811] c15 N70-36901
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[NASA-CASE-ERC-10044-1] c14 N71-27090
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[NASA-CASE-XNP-03835] c06 N71-23499
- BELLOWS**
Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686
- BELTS**
Apparatus for forming drive belts
[NASA-CASE-NFO-13205-1] c31 N74-32917
- BENDING**
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XMF-09422] c07 N71-19436
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[NASA-CASE-XAC-05632] c32 N71-23971
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[NASA-CASE-XNP-10475] c15 N71-24679
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[NASA-CASE-XLA-05966] c15 N72-12408
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Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095
- BENDING FATIGUE**
Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
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[NASA-CASE-XMF-02964] c14 N71-17659
- BENDING MOMENTS**
Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XMF-03198] c30 N70-40353
- BENDING VIBRATION**
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
- BENZENE**
Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
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[NASA-CASE-LEW-10327] c17 N71-33408
- BERYLLIUM OXIDES**
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c33 N76-15373
- BIMETALS**
Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
Design and development of linear actuator based on bimetallic spring expansion
[NASA-CASE-NFO-10637] c15 N72-12409
Application of spiral, bimetallic strip to create circular motion on mechanical shaft by changing strip temperature
[NASA-CASE-NFO-11283] c09 N72-25260
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[NASA-CASE-MFS-20433] c15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454
- BINARY CODES**
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-NFO-10342] c10 N71-33407
Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NFO-11194] c08 N72-25209
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N76-13781
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
Multiple rate digital command detection system --- with range clean-up capability
[NASA-CASE-NFO-13753-1] c32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308
- BINARY DATA**
Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-IGS-00174] c08 N70-34743
Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602
Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-IGS-04765] c08 N71-18693

- Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c32 N74-26654
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981
- BINARY DIGITS**
- Logarithmic converter for compressing 19-digit binary input number to 8-digit output
[NASA-CASE-XLA-00471] c08 N70-34778
- Circuit diagram and operation of full binary adder
[NASA-CASE-XGS-00689] c08 N70-34787
- Binary number sorter for arranging numbers in order of magnitude
[NASA-CASE-NPO-10112] c08 N71-12502
- Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
- Cathode ray tube system for displaying ones and zeros in binary wave train
[NASA-CASE-XGS-04987] c08 N71-20571
- Characteristics of comparator circuits for comparison of binary numbers in information processing system
[NASA-CASE-XNP-04819] c08 N71-23295
- Digital converter for scaling binary number to binary coded decimal number of higher multiple
[NASA-CASE-KSC-10595] c08 N73-12176
- Family of m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c10 N73-20254
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
- BINARY FLUIDS**
- Flow measuring apparatus
[NASA-CASE-LRW-12078-1] c35 N75-30503
- BINARY TO DECIMAL CONVERTERS**
- Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades
[NASA-CASE-XNP-00432] c08 N70-35423
- Design and operation of high speed binary to decimal conversion system
[NASA-CASE-XGS-01230] c08 N71-19544
- Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
- High speed direct binary to binary coded decimal converter for use in PCM telemetry systems
[NASA-CASE-KSC-10326] c08 N72-21197
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N76-13781
- BINDERS (MATERIALS)**
- Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
- Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125
- BINOCULARS**
- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c74 N77-20882
- BIOACOUSTICS**
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c33 N77-13335
- BIOASSAY**
- Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
- Bioassay of flavin coenzymes
[NASA-CASE-GSC-10565-1] c06 N72-25149
- Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N77-19750
- Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797
- BIOELECTRIC POTENTIAL**
- Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs
[NASA-CASE-XMS-02872] c05 N69-21925
- Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120
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[NASA-CASE-LAR-10773-3] c51 N77-25769
- BIOELECTRICITY**
- Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid
[NASA-CASE-XMS-04213-1] c09 N71-26002
- BIOENGINEERING**
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ABC-10596-1] c33 N74-21851
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c52 N77-14735
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
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- Temperature compensated solid state differential amplifier with application in bioinstrumentation circuits
[NASA-CASE-XAC-00435] c09 N70-35440
- Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ABC-10043-1] c05 N71-11193
- Characteristics of pressed disc electrode for biological measurements
[NASA-CASE-XMS-04212-1] c05 N71-12346
- Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-MSC-13282-1] c05 N71-24729
- Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid
[NASA-CASE-XMS-04213-1] c09 N71-26002
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ABC-10597-1] c52 N74-20726
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329
- A condition sensor system and method
[NASA-CASE-MSC-14805-1] c35 N76-26448
- A logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c52 N76-27839
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
- Biomedical ultrasonoscope
[NASA-CASE-ABC-10994-1] c52 N76-33835
- Thermistor holder for skin temperature measurements
[NASA-CASE-ABC-10855-1] c52 N77-10780
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[NASA-CASE-ABC-10994-2] c52 N77-15619
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- Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
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- Miniature ingestible telemeter devices to measure deep-body temperature [NASA-CASE-ARC-10583-1] c52 N76-29894
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 and shell heat exchanger
 [NASA-CASE-NPO-10831] c33 N72-20915

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 transformer device between two bolometers for
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 [NASA-CASE-XNP-01193] c10 N71-16057
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 temperature interchange sensor
 [NASA-CASE-NPO-10607] c09 N71-27232

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 Patent data on gas actuated bolt disconnect
 assembly
 [NASA-CASE-XLA-00326] c03 N70-34667
 Bolt-latch mechanism for releasing despin
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 [NASA-CASE-XLA-00679] c15 N70-38601
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 [NASA-CASE-XNP-04966] c14 N71-17658
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 [NASA-CASE-XNP-06914] c15 N71-21489
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 with axially stretched bolt and nut
 [NASA-CASE-GSC-11149-1] c15 N73-30457

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 bonding of graphite to silver, glass,
 ceramics, and certain other metals
 [NASA-CASE-IGS-00963] c15 N69-39735
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 [NASA-CASE-LAR-10900-1] c37 N74-23064
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 regression rate sensor devices
 [NASA-CASE-LAR-10337-1] c24 N75-30260
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 plates or structural parts
 [NASA-CASE-MSC-14182-1] c27 N76-14264
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 mixture of aluminum oxide and zirconium oxide
 [NASA-CASE-GSC-11577-3] c24 N76-19234

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 [NASA-CASE-NFS-20994-1] c35 N75-12271
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 [NASA-CASE-NPO-13764-1] c24 N76-26281
 Method and system for in vivo measurement of
 bone tissue using a two level energy source
 [NASA-CASE-MSC-14276-1] c52 N77-14737

BOOMS (EQUIPMENT)
 Unfolding boom assembly with knuckle joints for
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 [NASA-CASE-IGS-00938] c32 N70-41367
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 [NASA-CASE-NFS-20068] c07 N71-27191
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 [NASA-CASE-GSC-10566-1] c15 N72-18477
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 extended and telescoping boom on crane assembly
 [NASA-CASE-NPO-11118] c03 N72-25021

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 Techniques for recovery of multistage rocket
 vehicles by providing lifting surfaces on
 individual sections
 [NASA-CASE-XNP-00389] c31 N70-34176
 Recoverable, reusable single stage booster
 capable of injecting large payloads into
 circular earth orbit
 [NASA-CASE-XNP-01973] c31 N70-41588

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 Segmented back-up bar for butt welding large
 tubular structures such as rocket booster
 bodies or tanks
 [NASA-CASE-XNP-00640] c15 N70-39924
 Recoverable, reusable single stage booster
 capable of injecting large payloads into
 circular earth orbit
 [NASA-CASE-XNP-01973] c31 N70-41588

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 [NASA-CASE-ARC-11101-1] c54 N77-14742

BORING MACHINES
 Automatic controlled drive mechanism for
 portable boring bar
 [NASA-CASE-XLA-03661] c15 N71-33518

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 Radiation hardening of MOS devices by boron ---
 for stabilizing gate threshold potential of
 field effect device
 [NASA-CASE-GSC-11425-1] c76 N74-20329

BORON CARBIDES
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 [NASA-CASE-XHQ-03903] c15 N69-21922

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 Boron trifluoride coatings for thermoplastic
 materials
 [NASA-CASE-ARC-11057-1] c27 N77-26308

BOUNDARY LAYER CONTROL
 Double hinged flap for boundary layer control
 over trailing edges of wings
 [NASA-CASE-XLA-01290] c02 N70-42016

BOUNDARY LAYER SEPARATION
 Tertiary flow injection system for thrust
 vectoring of propulsive nozzle flow
 [NASA-CASE-NFS-20831] c28 N71-29153
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 distribution in gas turbine engines
 [NASA-CASE-LEW-11593-1] c20 N76-14190

BOUNDARY LAYERS
 Flow meter for measuring stagnation pressure in
 boundary layer around high speed flight vehicle
 [NASA-CASE-XPR-02007] c12 N71-24692
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 measuring temperature of wall heated by
 flowing fluid without disturbing boundary layer
 [NASA-CASE-XLE-05230] c14 N72-27410

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 Sealed storage container for channel carriers
 with mounted miniature electronic components
 [NASA-CASE-NFS-20075] c09 N71-26133

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 Energy dissipating shock absorbing system for
 land payload recovery or vehicle braking
 [NASA-CASE-XLA-00754] c15 N70-34850
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 transferring humans or materials from elevated
 location
 [NASA-CASE-XKS-07814] c15 N71-27067
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 operations of electrically controlled brake
 [NASA-CASE-NFS-21846-1] c37 N74-26976
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 a controlled rate the force of a moving body
 [NASA-CASE-NPO-13619-1] c37 N75-22748
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 [NASA-CASE-GSC-11960-1] c37 N77-14479

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 regenerative braking of electric motor
 [NASA-CASE-XNP-01096] c10 N71-16030
 Linear magnetic braking system with nonuniformly
 wrapped primary coil producing constant
 braking force on secondary coil
 [NASA-CASE-XLE-05079] c15 N71-17652
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 rotation of wind driven elements
 [NASA-CASE-XNP-05224] c14 N71-23726

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 titanium and zirconium for surface pretreatment
 [NASA-CASE-XNS-03537] c15 N69-21471
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 during salt bath brazing
 [NASA-CASE-XLB-00046] c15 N70-33311
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 stainless steel and brazing aluminum to
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 [NASA-CASE-NFS-07369] c15 N71-20443
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 brazing refractory metals to other refractory
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 [NASA-CASE-XNP-03063] c17 N71-23365
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 producing metal bonds with superior mechanical

- and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535
- Brazing alloy binder
[NASA-CASE-XNP-05868] c26 N75-27125
- Brazing alloy composition
[NASA-CASE-XNP-06053] c26 N75-27126
- Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127
- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c37 N76-18455
- BREATHING APPARATUS**
- Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
- Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N76-24900
- Portable breathing system
[NASA-CASE-MSC-16182-1] c54 N77-21847
- BRICKS**
- Development of construction block in form of container folded from flat sheet and filled with solid material for architectural purposes
[NASA-CASE-MSC-12233-2] c32 N73-13921
- BRIGHTNESS**
- Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479
- BRIGHTNESS DISCRIMINATION**
- Video signal processing system for sampling video brightness levels
[NASA-CASE-NPO-10140] c07 N71-24742
- Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
- BRITTLENESS**
- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c46 N74-23069
- BROADBAND**
- Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
- Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
- Broadband frequency discriminator with resistive captive inductive networks
[NASA-CASE-NPO-10096] c07 N71-24583
- Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808
- Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
- Wideband voltage controlled oscillator with high phase stability
[NASA-CASE-XLA-03893] c10 N71-27271
- Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
- BROADBAND AMPLIFIERS**
- Solid state broadband stable power amplifier
[NASA-CASE-XNP-10854] c10 N71-26331
- Broadband distribution amplifier with complementary pair transistor output stages
[NASA-CASE-NPO-10003] c10 N71-26415
- BROADCASTING**
- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194
- BROMINE**
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c44 N76-18641
- BRUSHES**
- Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XNP-01016] c26 N71-17818
- BUCKLING**
- Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
- Test equipment to prevent buckling of small diameter specimens during compression tests
[NASA-CASE-LAR-10440-1] c14 N73-32323
- BUFFER STORAGE**
- Data handling based on source significance, storage availability, and data received from source
[NASA-CASE-XNP-04162-1] c08 N70-34675
- Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
- Digital to analog converter with parallel input/output memory device
[NASA-CASE-MSC-10397] c08 N72-25206
- BUILDINGS**
- Apparatus and method of assembling building blocks by folding pre-cut flat sheets of material during on-site construction
[NASA-CASE-MSC-12233-1] c15 N72-25454
- BULKHEADS**
- Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XNP-01899] c31 N70-41948
- BUOYANCY**
- Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
- BURNING RATE**
- Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819
- Development of apparatus for testing burning rate and flammability of materials
[NASA-CASE-XMS-09690] c33 N72-25913
- BURNOUT**
- Spherical solid propellant rocket engine having abrupt burnout
[NASA-CASE-XHQ-01897] c28 N70-35381
- BUTT JOINTS**
- Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLE-00144] c28 N70-34860
- Segmented back-up bar for butt welding large tubular structures such as rocket booster bodies or tanks
[NASA-CASE-XNP-00640] c15 N70-39924
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c37 N75-27376
- BUTTERFLY VALVES**
- Flexible inflatable seal for butterfly valves
[NASA-CASE-XLE-00101] c15 N70-33376
- BYPASSES**
- Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
- Current regulating voltage divider design with load current shunting
[NASA-CASE-MFS-20935] c09 N71-34212
- Electrical interconnection of unilluminated solar cells in solar battery array
[NASA-CASE-GSC-10344-1] c03 N72-27053

C

CABLE FORCE RECORDERS

- Design and characteristics of device for showing amount of cable payed out from winch and load imposed
[NASA-CASE-MSC-12052-1] c15 N71-24599

CABLES

- Cable guide and restraint device for reefing tubes in uniform manner
[NASA-CASE-LAR-10129-1] c15 N73-25512
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c37 N76-22540

CABLES (ROPES)

- High voltage cable for use in high intensity ionizing radiation fields
[NASA-CASE-XNP-00738] c09 N70-38201
- Force separation rigid tethering device using cables
[NASA-CASE-XLA-02332] c32 N71-17609

- Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-IXF-07587] c15 N71-18701
- Design and construction of satellite appendage tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
- Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-IXF-05421] c15 N71-22994
- Flexible cable that can be made rigid
[NASA-CASE-MSC-13512-1] c15 N72-22485
- Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453
- Reefing system
[NASA-CASE-LAR-10129-2] c37 N74-20063
- Emergency descent device
[NASA-CASE-MFS-23074-1] c54 N77-21844
- CADMIUM SULFIDES**
- High field Cds detector for infrared radiation
[NASA-CASE-LAR-11027-1] c35 N74-18088
- CALCIUM**
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271
- CALCIUM FLUORIDES**
- Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
- Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105
- CALCIUM OXIDES**
- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c25 N77-29252
- CALCIUM PHOSPHATES**
- Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-ERC-10338] c04 N72-33072
- CALCULATORS**
- Sun angle calculator
[NASA-CASE-MSC-12617-1] c35 N76-29552
- CALIBRATING**
- Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999
- Combination pressure transducer-calibrator assembly for measuring fluid
[NASA-CASE-IXF-01660] c14 N71-23036
- Control system for pressure balance device used in calibrating pressure gages
[NASA-CASE-IXF-04134] c14 N71-23755
- Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds
[NASA-CASE-IKS-10804] c05 N71-24606
- Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
- Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117
- Calibration of vacuum gauges for measuring total and partial pressures in ultrahigh vacuum region
[NASA-CASE-IGS-07752] c14 N73-30390
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c35 N74-13132
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c35 N74-15092
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c35 N75-15932
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N76-24523
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343
- CALORIMETERS**
- Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-IXF-04208] c33 N71-29051
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c34 N74-27859
- CAMERA SHUTTERS**
- Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-IXP-00637] c14 N70-40273
- Magnetically opened diaphragm design with camera shutter and expansion tube applications
[NASA-CASE-XLA-03660] c15 N71-21060
- Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NFO-10758] c14 N73-14427
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c33 N74-20861
- CAMERAS**
- Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
- Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-IXF-03844-1] c14 N71-26474
- Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
- Design and characteristics of laser camera system with diffusion filter of small particles with average diameter larger than wavelength of laser light
[NASA-CASE-NFO-10417] c16 N71-33410
- Optical scanner with linear housing and rotating camera
[NASA-CASE-NFO-11002] c14 N72-22441
- Apparatus for on-film optical recording of camera lens aperture and focus setting
[NASA-CASE-MSC-12363-1] c14 N73-26431
- Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402
- Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408
- CANS**
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c37 N77-27400
- CANARD CONFIGURATIONS**
- Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
- CANCER**
- A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796
- CANOPIES**
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
- CANS**
- Design and characteristics of device for closing canisters under high vacuum conditions
[NASA-CASE-XLA-01446] c15 N71-21528
- Extrusion can for extruding ceramics under heat and pressure
[NASA-CASE-NFO-10812] c15 N73-13464
- An improved vehicular impact absorption system
[NASA-CASE-NFO-14014-1] c37 N77-31501
- CANTILEVER BEAMS**
- Pneumatic cantilever beams and platform for space erectable structure

- [NASA-CASE-XLA-01731] c32 N71-21045
CANTILEVER MEMBERS
 Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
 [NASA-CASE-NPO-10883] c31 N72-22874
 Miniature biaxial strain transducer
 [NASA-CASE-LAR-11648-1] c35 N77-14407
- CAPACITANCE**
 Capacitance measuring device for determining flare accuracy on tapered tubes
 [NASA-CASE-XKS-03495] c14 N69-39785
 Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
 [NASA-CASE-IAC-04885] c14 N71-23790
 Thin film capacitive bolometer and capacitance temperature interchange sensor
 [NASA-CASE-NPO-10607] c09 N71-27232
 Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
 [NASA-CASE-MFS-21629] c14 N72-22442
 Adjustable frequency response microphone
 [NASA-CASE-LAR-11170-1] c32 N74-12843
 Capacitance multiplier and filter synthesizing network
 [NASA-CASE-NPO-11948-1] c33 N74-32712
 Direct reading inductance meter
 [NASA-CASE-NPO-13792-1] c35 N77-32455
- CAPACITANCE SWITCHES**
 Electric discharge apparatus for electrohydraulic explosive forming
 [NASA-CASE-XNP-00375] c15 N70-34249
 Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
 [NASA-CASE-XGS-00381] c09 N70-34819
 Feedback integrating circuit with grounded capacitor for signal processing
 [NASA-CASE-XAC-10607] c10 N71-23669
- CAPACITORS**
 Temperature sensitive capacitor device for detecting very low intensity infrared radiation
 [NASA-CASE-XNP-09750] c14 N69-39937
 Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
 [NASA-CASE-LAR-10367-1] c03 N70-26817
 Electrical power system for space flight vehicles operating over extended periods
 [NASA-CASE-XNP-00517] c03 N70-34157
 Capacitor for measuring density of compressible fluid in liquid, gas, or liquid and gas phases
 [NASA-CASE-XLE-00143] c14 N70-36618
 Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
 [NASA-CASE-XLE-01246] c14 N71-10797
 Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, and dielectric material
 [NASA-CASE-LEW-10364-1] c09 N71-13522
 Mechanism for measuring nanosecond time differences between luminous events using streak camera
 [NASA-CASE-XLA-01987] c23 N71-23976
 Circuit for monitoring power supply by ripple current indication
 [NASA-CASE-KSC-10162] c09 N72-11225
 Thermoelectric radiometer using polymer film as capacitor
 [NASA-CASE-ARC-10138-1] c14 N72-24477
 Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
 [NASA-CASE-LAR-10294-1] c26 N72-28762
 Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
 [NASA-CASE-ARC-10443-1] c14 N73-20477
 Insulated electrocardiographic electrodes --- without paste electrolyte
 [NASA-CASE-MSC-14339-1] c05 N75-24716
 High temperature beryllium oxide capacitor
 [NASA-CASE-LEW-11938-1] c33 N76-15373
 Mechanical capacitor
 [NASA-CASE-GSC-12030-1] c44 N76-30652
- A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
 [NASA-CASE-LEW-12791-1] c33 N77-24385
- CAPILLARY FLOW**
 Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
 [NASA-CASE-XLE-03307] c33 N71-14035
 Lubrication for bearings by capillary action from oil reservoir of porous material
 [NASA-CASE-XNP-03972] c15 N71-23048
 Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
 [NASA-CASE-XLA-08911] c15 N71-27214
 Capillary flow weld-bonding
 [NASA-CASE-LAR-11726-1] c37 N76-27568
- CAPILLARY TUBES**
 Tubular flow restrictor for gas flow control in pipeline
 [NASA-CASE-NPO-10117] c15 N71-15608
 Development of liquid separating system using capillary device connected to flexible bladder storage chamber
 [NASA-CASE-XLA-13052] c14 N71-20427
 Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
 [NASA-CASE-XNP-02251] c12 N71-20896
 Diffused waveguiding capillary tube with distributed feedback for a gas laser
 [NASA-CASE-NPO-13544-1] c36 N76-18428
- CARBAZOLES**
 Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
 [NASA-CASE-NPO-10373] c03 N71-18698
- CARBOHYDRATES**
 Decontamination of petroleum products with honey
 [NASA-CASE-XNP-03835] c06 N71-23499
- CARBON ARCS**
 Water cooled contactors for holding rotating carbon arc anode
 [NASA-CASE-XMS-03700] c15 N69-24266
- CARBON COMPOUNDS**
 Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces
 [NASA-CASE-XLA-00284] c15 N71-16075
- CARBON DIOXIDE**
 Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
 [NASA-CASE-XLA-01967] c31 N70-42015
 Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
 [NASA-CASE-MSC-13332-1] c14 N72-21408
- CARBON DIOXIDE LASERS**
 Repetitively pulsed wavelength selective carbon dioxide laser
 [NASA-CASE-FBC-10178] c16 N71-24832
 Performance of ac power supply developed for CO2 laser system
 [NASA-CASE-GSC-11222-1] c16 N73-32391
 Stark-effect modulation of CO2 laser with NH2D
 [NASA-CASE-NPO-11945-1] c36 N76-18427
- CARBON DIOXIDE REMOVAL**
 Catalyst cartridge for carbon dioxide reduction unit
 [NASA-CASE-LAR-10551-1] c25 N74-12813
 Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
 [NASA-CASE-MSC-14771-1] c54 N77-32722
- CARBON MONOXIDE**
 Carbon monoxide monitor --- using real time operation
 [NASA-CASE-MFS-22060-1] c35 N75-29380
- CARBONATES**
 Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
 [NASA-CASE-MFS-10512] c06 N73-30099
- CARBOXYL GROUP**
 Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials
 [NASA-CASE-NPO-10596] c06 N71-25929

CARBOXYLIC ACIDS

Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
[NASA-CASE-LEW-11325-1] c06 N73-27980
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-HFS-21040-1] c06 N73-30098

CARCINOGENS

Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676

CARDIAC VENTRICLES

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701

CARDIOGRAPHY

Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-AFC-10753-1] c54 N75-27760

CARDIOLOGY

Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-HFS-20418] c14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NFO-13644-1] c52 N76-29895

CARDIOTACHOMETERS

Digital computing cardiometer
[NASA-CASE-HFS-20284-1] c52 N74-12778

CARDIOVASCULAR SYSTEM

Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NFO-13643-1] c52 N76-29896

CARRIER FREQUENCIES

Demodulator for simultaneous demodulation of two modulating ac signal carriers close in frequency
[NASA-CASE-XMP-01160] c07 N71-11298
Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NFO-11628-1] c07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NFO-13103-1] c32 N74-20811
Swept group delay measurement
[NASA-CASE-NFO-13909-1] c33 N77-17358

CARRIER WAVES

Variable frequency subcarrier oscillator with temperature compensation
[NASA-CASE-XNP-03916] c09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981

CARRIERS

Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-HFS-20075] c09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-HFS-21394-1] c34 N74-27744

CARTESIAN COORDINATES

Design and development of random function tracer for obtaining coordinates of points on contour maps
[NASA-CASE-XLA-01401] c15 N71-21179

CARTRIDGES

Tape cartridge with high capacity storage of endless-loop magnetic tape
[NASA-CASE-XGS-00769] c14 N70-41647
Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit

[NASA-CASE-LAR-10551-1] c25 N74-12813

CASCADE CONTROL

Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673
Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245

CASCADE FLOW

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117

CASES (CONTAINERS)

Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-XGS-00886] c03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876

CASSEGRAIN ANTENNAS

Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-XNP-00683] c09 N70-35425
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NFO-10539] c07 N71-11285
Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
Dual frequency feed systems for Cassegrainian antennas
[NASA-CASE-NFO-13091-1] c09 N73-12214
Low loss dichroic plate
[NASA-CASE-NFO-13171-1] c32 N74-11000

CASTING

Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975

CASTINGS

Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570

CATALYSIS

Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NFO-13566-1] c25 N77-32255

CATALYSTS

Catalyst for increased growth of boron carbide crystal whiskers
[NASA-CASE-XBQ-03903] c15 N69-21922
Catalyst bed element removing tool
[NASA-CASE-XPR-00811] c15 N70-36901
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
Development of device for detecting hydrogen in ambient environments
[NASA-CASE-HFS-11537] c14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813
Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-HSC-16299-1] c45 N77-31668

CATALYTIC ACTIVITY

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
A process of forming catalytic surfaces for oxidation reactions
[NASA-CASE-HSC-14831-1] c25 N76-23387
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597

- Catheter tip force transducer for cardiovascular research
[NASA-CASE-WFO-13643-1] c52 N76-29896
- CATHODE RAY TUBES**
- Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
- Cathode ray tube system for displaying ones and zeros in binary wave train
[NASA-CASE-XGS-04987] c08 N71-20571
- Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-WFO-10625] c09 N71-26182
- Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
- Digital video system for displaying image and alphanumeric data on cathode ray tube
[NASA-CASE-WFO-11342] c09 N72-25248
- Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-XSC-10647-1] c10 N72-31273
- Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250
- CATHODES**
- Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
- Electronic cathodes for use in electron bombardment ion thrusters
[NASA-CASE-XLE-04501] c09 N71-23190
- Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
- Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-WFO-11880] c28 N73-24783
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-WFO-11806-1] c44 N74-19693
- CATIONS**
- Water insoluble, cationic permselective membrane
[NASA-CASE-WFO-11091] c18 N72-22567
- CAVITATION FLOW**
- Semitoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615
- CAVITIES**
- Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-WFO-10810] c14 N71-27323
- Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XNP-05999] c15 N71-29032
- Soil burrowing mole apparatus
[NASA-CASE-XNP-07169] c15 N73-32362
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
- Method of making hollow elastomeric bodies
[NASA-CASE-WFO-13535-1] c37 N76-31524
- CAVITY RESONATORS**
- Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
- Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
- Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
[NASA-CASE-XNP-00449] c14 N70-35220
- Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
- Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
- Infrared tunable dye laser with nonlinear wavelength mixing crystal in optical cavity
[NASA-CASE-ARC-10463-1] c09 N73-32111
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-XQN-10790-1] c36 N74-11313
- CELESTIAL BODIES**
- Device for determining relative angular position of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
- CELESTIAL NAVIGATION**
- Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
- CELL ANODES**
- Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
- Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c44 N77-14581
- CELL DIVISION**
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c51 N77-25769
- CELLS**
- Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-IMS-02952] c18 N71-20742
- CELLS (BIOLOGY)**
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c52 N77-27693
- CEMENTS**
- Graphite reinforced bone cement
[NASA-CASE-WFO-13764-1] c24 N76-26281
- CENTRIFUGES**
- Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
- Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
- CERAMIC BONDING**
- Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610
- Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
- CERAMIC COATINGS**
- Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
- Unfired-ceramic, highly reflective composite insulation for large launch vehicles
[NASA-CASE-XNP-01030] c18 N70-41583
- Unfired ceramic insulation for protection from radiant heating environments
[NASA-CASE-WFS-14253] c33 N71-24858
- Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c27 N76-23426
- CERAMIC NUCLEAR FUELS**
- Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
- CERAMICS**
- Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
- Characteristics of foamed-in-place ceramic refractory insulating material and method of fabrication
[NASA-CASE-XGS-02435] c18 N71-22998

- Process for fiberizing ceramic materials with high fusion temperatures and tensile strength [NASA-CASE-XNP-00597] c18 N71-23088
- Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits [NASA-CASE-XMP-05999] c15 N71-29032
- Extrusion can for extruding ceramics under heat and pressure [NASA-CASE-NPO-10812] c15 N73-13464
- Thermal shock resistant hafnia ceramic materials [NASA-CASE-LAR-10894-1] c18 N73-14584
- Insulation foil and method of making [NASA-CASE-LEW-11484-2] c24 N75-14839
- Thermal shock and erosion resistant tantalum carbide ceramic material [NASA-CASE-LAR-11902-1] c27 N76-23436
- Improved nozzle for use with abrasive and/or corrosive materials [NASA-CASE-NPO-13823-1] c37 N77-17466
- Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles [NASA-CASE-NSC-12619-2] c16 N77-31237
- CERMETS**
- Freeze casting of metal ceramic and refractory compound powders into plastic slips [NASA-CASE-XLF-00106] c15 N71-16076
- Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability [NASA-CASE-LEW-10219-1] c18 N71-28729
- Cermet composition and method of fabrication --- heat resistant alloys and powders [NASA-CASE-NPO-13120-1] c27 N76-15311
- High temperature oxidation resistant cermet compositions [NASA-CASE-NPO-13666-1] c27 N77-13217
- CESIUM**
- Heated tungsten filter for removing oxygen impurities from cesium [NASA-CASE-XNP-04262-2] c17 N71-26773
- Method of producing I-123 --- by bombardment of cesium causing spallation [NASA-CASE-LEW-11390-2] c25 N76-27383
- CESIUM DIODES**
- Oxygen-doped tantalum emitter for thermionic devices such as cesium vapor diodes [NASA-CASE-NPO-11138] c03 N70-34646
- Thermionic cesium diode converter with cavity emitters [NASA-CASE-NPO-10412] c09 N71-28421
- CESIUM ENGINES**
- Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor [NASA-CASE-XMP-00923] c28 N70-36802
- Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines [NASA-CASE-XLE-00455] c28 N70-38197
- CESIUM VAPOR**
- Electric power generation system directory from laser power [NASA-CASE-NPO-13308-1] c36 N75-30524
- Cesium thermionic converters having lanthanum hexaboride electrodes [NASA-CASE-LEW-12038-2] c44 N77-32595
- CHANNEL FLOW**
- Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction [NASA-CASE-XLE-00150] c28 N70-41818
- Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction [NASA-CASE-MSC-12084-1] c12 N71-17569
- CHANNELS (DATA TRANSMISSION)**
- Error correction circuitry for binary signal channels [NASA-CASE-XNP-03263] c09 N71-18843
- Helical recorder for multiple channel recording [NASA-CASE-GSC-10614-1] c09 N72-11224
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use [NASA-CASE-NPO-13321-1] c32 N75-26195
- CHARACTER RECOGNITION**
- Automatic character skew and spacing checking network --- of digital tape drive systems [NASA-CASE-GSC-11925-1] c33 N76-18353
- CHARGE DISTRIBUTION**
- Operation of vidicon tube for scanning spatial charge density pattern [NASA-CASE-XNP-06028] c09 N71-23189
- Charge storage diode modulators and demodulators [NASA-CASE-NPO-10189-1] c33 N77-21314
- CHARGE EXCHANGE**
- Ion beam thruster shield [NASA-CASE-LEW-12082-1] c20 N77-10148
- CHARGE TRANSFER**
- Electronic counter circuit utilizing magnetic core and low power consumption [NASA-CASE-XNP-08836] c09 N71-12515
- CHARGE TRANSFER DEVICES**
- Charge transfer reaction laser with preionization means [NASA-CASE-NPO-13945-1] c36 N77-19418
- CHARGED PARTICLES**
- Method of forming thin window drifted silicon charged particle detector [NASA-CASE-XLE-00808] c24 N71-10560
- Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members [NASA-CASE-XAC-05506-1] c24 N71-16095
- Electrostatic charged particle collector containing stacked electrodes for microwave tube [NASA-CASE-LEW-11192-1] c09 N73-13208
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces [NASA-CASE-GSC-11963-1] c33 N77-10429
- CHARGING**
- Development of device for simulating charge and discharge cycle of battery in synchronous orbit [NASA-CASE-GSC-11211-1] c03 N72-25020
- CHARRING**
- Sensor device with switches for measuring surface recession of charring and noncharring ablaters [NASA-CASE-XLA-01781] c14 N69-39975
- Ablation sensor for measuring char layer recession rate using electric wires [NASA-CASE-XLA-01794] c33 N71-21586
- CHECKOUT**
- Digital computer system for automatic prelaunch checkout of spacecraft [NASA-CASE-IKS-08012-2] c31 N71-15566
- Rapid activation and checkout device for batteries [NASA-CASE-NFS-22749-1] c44 N76-14601
- CHELATES**
- Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive [NASA-CASE-LAR-10173-1] c27 N71-14090
- CHEMICAL ANALYSIS**
- Analytical test apparatus and method for determining oxygen content in alkali liquid metal [NASA-CASE-XLE-01997] c06 N71-23527
- Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units [NASA-CASE-XNP-09451] c06 N71-26754
- Method for determining presence and type of OH in MgO [NASA-CASE-NPO-10774] c06 N72-17095
- Development and characteristics of injection system for use with gas chromatograph [NASA-CASE-ARC-10344-1] c14 N72-21433
- Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector [NASA-CASE-ARC-10443-1] c14 N73-20477
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials [NASA-CASE-ARC-10633-1] c25 N74-26947
- Amino acid analysis [NASA-CASE-NPO-12130-1] c25 N75-14844
- Gas chromatograph injection system [NASA-CASE-ARC-10344-2] c35 N75-26334
- CHEMICAL AUXILIARY POWER UNITS**
- Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells [NASA-CASE-IHS-02063] c03 N71-29044

CHEMICAL COMPOSITION

- Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NFO-11433] c18 N71-31140
- Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-IGS-03736] c14 N72-22443
- Frequency scanning particle size spectrometer
[NASA-CASE-NFO-13606-1] c35 N75-19627

CHEMICAL COMPOUNDS

- Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428

CHEMICAL ELEMENTS

- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c37 N74-18123

CHEMICAL ENGINEERING

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c25 N77-29252

CHEMICAL MACHINING

- Reusable masking boot for chemical machining operations
[NASA-CASE-INP-02092] c15 N70-42033

CHEMICAL PROPERTIES

- Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
[NASA-CASE-INP-02584] c06 N71-20905
- Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
- Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c37 N74-21058

CHEMICAL REACTIONS

- Process for interfacial polymerization of pyromellitic dianhydride and tetraamino benzene
[NASA-CASE-XLA-03104] c06 N71-11235
- Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-INP-08651] c06 N71-11236
- Preparation of ordered polyarylenesiloxane/polymers
[NASA-CASE-INP-10753] c06 N71-11237
- Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238
- Composition and process for improving definition of resin masks used in chemical etching
[NASA-CASE-IGS-04993] c14 N71-17574
- Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-INP-03988] c15 N71-21403
- Synthesis of high purity dianilinosilanes
[NASA-CASE-INP-06409] c06 N71-23230
- Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-INP-03074] c06 N71-24740
- Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254
- Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
- Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
- Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620
- Process for preparing high molecular weight polyaryloxysilanes from lower molecular weight forms
[NASA-CASE-INP-08674] c06 N71-28807
- Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-INP-04023] c06 N71-28808

- Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties
[NASA-CASE-INP-09902] c15 N72-11387
- Method to produce high purity copper fluoride by heating copper hydroxyfluoride powder and subjecting to flowing fluorine gas
[NASA-CASE-LRW-10794-1] c06 N72-17093
- Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
- Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
- Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
- Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918
- Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NFO-10893] c27 N73-22710
- Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
- Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
- Utilization of lithium p-lithiophenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c27 N74-27037
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c25 N75-26043
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c27 N76-16228
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714

CHEMICAL TESTS

- Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
- Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446

CHIMNEYS

- Smokestack mounted airfoil
[NASA-CASE-LAR-11669-1] c34 N76-13419

CHLORINATION

- Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933

CHLOROPRENE RESINS

- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c27 N74-12814
- Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267

CHOKES

- Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154

CHOKES (RESTRICTIONS)

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270

CHOLESTEROL

- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270

CHROMATOGRAPHY

- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947

CHROMIUM ALLOYS

- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
Reduced chromium stainless steel alloys
[NASA-CASE-LFW-12543-1] c26 N77-21217

CHROMOSOMES

- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N77-19750

CINEMATOGRAPHY

- High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402

CIRCUIT BOARDS

- Electrical feedthrough connection for printed circuit boards
[NASA-CASE-XMF-01483] c14 N69-27431
Electric connector for printed cable to printed cable or to printed board
[NASA-CASE-XMF-00369] c09 N70-36494
Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Electrical spot terminal assembly for printed circuit boards
[NASA-CASE-NPO-10034] c15 N71-17685
Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit boards
[NASA-CASE-MFS-20408] c18 N73-12604
Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c37 N76-27567

CIRCUIT BREAKERS

- Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-XKS-04631] c10 N71-23663
Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695
Relay circuit breaker with magnetic latching to provide conductive and nonconductive paths for current devices
[NASA-CASE-MSC-11277] c09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c33 N75-27249

CIRCUIT DIAGRAMS

- Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329
Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-09228] c09 N69-27500
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Frequency shift keyed demodulator - circuit diagrams
[NASA-CASE-XGS-02889] c07 N71-11282
Difference indicating circuit used in conjunction with device measuring

- gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
Control of fusion welding through use of thermocouple wire
[NASA-CASE-MFS-06074] c15 N71-20393
Circuitry for developing autocorrelation function continuously within signal receiving period
[NASA-CASE-XNP-00746] c07 N71-21476
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASE-GSC-10735-1] c10 N71-26085
Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c33 N77-13315
- CIRCUIT PROTECTION
- Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c09 N69-39897
Development of in-line fuse device for protection of electric circuits from excessive currents and voltages
[NASA-CASE-MSC-12135-1] c09 N71-12526
Overcurrent protecting circuit for push-pull transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 N71-13531
Solder coating process for printed copper circuit protection
[NASA-CASE-XNP-01599] c09 N71-20705
Power supply with overload protection for series stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
Selective plating of etched circuits without removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047
Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129
Current protection equipment for saturable core transformers
[NASA-CASE-ERC-10075-2] c09 N72-22196
Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LFW-10489-1] c15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LFW-12039-1] c44 N76-23713
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338

CIRCUITS

Distribution of currents to circuits using electrical adaptor
[NASA-CASE-XLA-01288] c09 N69-21470

Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743

Electronic circuit system for controlling electric motor speed
[NASA-CASE-XMF-01129] c09 N70-38712

Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-XNP-01058] c09 N71-12540

Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687

High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583

Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
[NASA-CASE-XGS-03390] c03 N71-23187

Circuits for controlling reversible dc motor
[NASA-CASE-XNP-07477] c09 N71-26092

Device for rapid adjustment and maintenance of temperature in electronic components
[NASA-CASE-XNP-02792] c14 N71-28958

Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-XNP-00745] c10 N71-28960

Development of electric circuit for production of different pulse width signals
[NASA-CASE-XLA-07788] c09 N71-29139

Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129

Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 N72-22200

Development of thermal to electric power conversion system using solid state switches of electrical currents to load for Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048

Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-FRC-10268] c09 N72-25252

Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262

Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485

Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241

Active tuned circuits for microelectronic construction
[NASA-CASE-GSC-11340-1] c10 N72-33230

Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NPO-10768-1] c14 N73-14428

Electrodeless lamp circuit driven by induction
[NASA-CASE-NFS-21214-1] c09 N73-30181

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479

High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16332

CIRCULAR CONES
Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-XMF-00462] c14 N70-34298

CIRCULAR CYLINDERS
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479

CIRCULAR POLARIZATION
Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595

Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148

Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-FRC-10214] c09 N72-31235

Dual frequency circularly polarized microwave integrated antenna
[NASA-CASE-MSC-16100-1] c32 N77-15233

CIRCULAR TUBES
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133

CIRCULATORS (PHASE SHIFT CIRCUITS)
Development of electromagnetic wave transmission line circulator and application to parametric amplifier circuits
[NASA-CASE-XNP-02140] c09 N71-23097

CLAMPING CIRCUITS
Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782

CLAMPS
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XMF-01452] c15 N70-41371

Hydraulic clamping of sheet stock specimens
[NASA-CASE-XLA-05100] c15 N71-17696

Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813

Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531

Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XPR-05421] c15 N71-22994

CLAYS
White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184

CLEAN ROOMS
Environmentally controlled suit for working in sterile chamber
[NASA-CASE-LAB-10076-1] c05 N73-20137

CLEANERS
Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849

Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material
[NASA-CASE-NFS-18100] c15 N72-11390

CLEANING
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819

CLEAR AIR TURBULENCE
Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-FRC-10081] c14 N72-28437

Clear air turbulence detector
[NASA-CASE-NFS-21244-1] c36 N75-15028

CLIMBING FLIGHT
Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157

CLINICAL MEDICINE
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-FRC-10338] c04 N72-33072

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAB-11326-1] c35 N75-33368

Production of I-123
[NASA-CASE-LEW-11390-3] c25 N76-29379

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N77-19750

A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796

CLOCKS
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326

- Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504
- Clock setter
[NASA-CASE-LAR-11458-1] c35 N76-16392
- CLOSED CIRCUIT TELEVISION**
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
- CLOSED CYCLES**
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664
- CLOSED ECOLOGICAL SYSTEMS**
Potable water reclamation from human wastes in zero-G environment
[NASA-CASE-XIA-03213] c05 N71-11207
- Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c54 N77-32722
- CLOSURES**
Design and characteristics of device for closing canisters under high vacuum conditions
[NASA-CASE-XIA-01446] c15 N71-21528
- Spacesuit torso closure
[NASA-CASE-ABC-11100-1] c54 N77-25784
- CLOUD CHAMBERS**
Heat transfer device
[NASA-CASE-MFS-22938-1] c34 N76-18374
- CLOUDS (METEOROLOGY)**
Development and characteristics of apparatus for measuring intensity of electric field in atmosphere
[NASA-CASE-KSC-10730-1] c14 N73-32318
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c33 N74-27862
- CMOS**
A complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
- COATING**
Solder coating process for printed copper circuit protection
[NASA-CASE-XNP-01599] c09 N71-20705
- High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XIA-06199] c15 N71-24875
- Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
- COATINGS**
Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XNS-00259] c18 N70-36400
- Selective coating for solar panels --- energy policy
[NASA-CASE-LEW-12159-1] c44 N76-15603
- COAXIAL CABLES**
Design and development of device for cooling inner conductor of coaxial cable
[NASA-CASE-XNP-09775] c09 N71-20445
- Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
- Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ABC-10132-1] c09 N71-24597
- Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
- Vibration isolation system, using coaxial helical compression springs
[NASA-CASE-WFO-11012] c15 N72-11391
- Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-WFO-13138-1] c33 N74-17927
- Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-WFO-13504-1] c33 N75-30430
- COAXIAL PLASMA ACCELERATORS**
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c75 N76-17951
- COBALT ALLOYS**
High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644
- High temperature cobalt-base alloy resistant to corrosion by liquid metals and to sublimation in vacuum environment
[NASA-CASE-XLE-02991] c17 N71-16025
- High temperature ferromagnetic cobalt-base alloy for electrical power generating equipment
[NASA-CASE-XLE-03629] c17 N71-23248
- Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415
- COCKPIT SIMULATORS**
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XPR-04147] c11 N71-10748
- CODERS**
Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-WFO-10342] c10 N71-33407
- Biorthogonal encoder with modular design
[NASA-CASE-WFO-10629] c08 N72-18184
- Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ABC-10897-1] c33 N77-31404
- CODING**
Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
[NASA-CASE-XNP-02748] c08 N71-22749
- Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239
- COEFFICIENT OF FRICTION**
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c35 N76-31489
- COENZYMES**
Bioassay of flavin coenzymes
[NASA-CASE-GSC-10565-1] c06 N72-25149
- COHERENT ELECTROMAGNETIC RADIATION**
Design of folded traveling wave maser structure
[NASA-CASE-XNP-05219] c16 N71-15550
- Development of focused image holography with extended sources
[NASA-CASE-EEC-10019] c16 N71-15551
- COHERENT LIGHT**
Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
- Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XNS-04269] c16 N71-22895
- Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994
- COHERENT RADIATION**
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light

- collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NFO-11919-1] c35 N74-11284
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NFO-11861-1] c36 N74-20009
- Optically detonated explosive device
[NASA-CASE-NFO-11743-1] c28 N74-27425
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NFO-13346-1] c36 N76-29575
- COINCIDENCE CIRCUITS**
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c33 N76-16331
- COLD CATHODES**
Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-32327
- COLD GAS**
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071
- COLD WORKING**
Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLE-05641-1] c15 N71-26346
- COLLAPSE**
Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152
- COLLECTION**
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c35 N75-19611
- COLLIMATION**
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c36 N74-21091
- Optical alignment device
[NASA-CASE-ARC-10932-1] c74 N76-22993
- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c36 N77-32478
- COLLIMATORS**
X ray collimating structure for focusing radiation directly onto detector
[NASA-CASE-XHQ-04106] c14 N70-40240
- Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c35 N75-19616
- COLLISION AVOIDANCE**
Cooperative Doppler radar system for avoiding midair collisions
[NASA-CASE-LAR-10403] c21 N71-11766
- Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
- Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
- Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
- Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643
- Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c03 N75-30132
- COLLOIDAL GENERATORS**
Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
- COLLOIDAL PROPELLANTS**
Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
- Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-XLE-01512] c12 N70-40124
- Electrostatic microthrust propulsion system with annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25214
- COLOR**
Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446
- COLOR PHOTOGRAPHY**
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-IXP-01779] c12 N71-20815
- COLOR TELEVISION**
Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
- Color television system for allowing monochrome television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109
- Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-NFO-10166-1] c07 N73-22076
- Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c09 N76-10148
- Scan converting video tape recorder
[NASA-CASE-NFO-10166-2] c35 N76-16391
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893
- COLOR VISION**
Color perception tester for testing color code perceptiveness of individuals
[NASA-CASE-KSC-10278] c05 N72-16015
- COLUMNS (PROCESS ENGINEERING)**
Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
- COLUMNS (SUPPORTS)**
Lightweight structural columns --- for truss structures
[NASA-CASE-LAR-12095-1] c39 N77-27432
- COMBINATORIAL ANALYSIS**
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437
- COMBUSTION**
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484
- COMBUSTION CHAMBERS**
Rocket chamber leak test fixture using tubular plug
[NASA-CASE-IXP-09479] c14 N69-27503
- Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
- Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411
- Apparatus for cooling and injecting hypersonic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
- Ignition system for monopropellant combustion devices
[NASA-CASE-IXP-00249] c28 N70-38249
- Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818
- Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507
- Regenerative cooling system for rocket combustion chamber using coolant tubes in convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-24968
- Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
- Coaxial injector for mixing liquid propellants within combustion chambers
[NASA-CASE-NFO-11095] c15 N72-25455
- Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LEW-11326-1] c23 N73-30665

- Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c20 N74-32919
- Heat exchanger --- rocket combustion chambers
and cooling systems
[NASA-CASE-LEW-12252-1] c34 N75-19579
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
- Controlled separation combustor --- airflow
distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
- Fuel combustor
[NASA-CASE-LEW-12137-1] c20 N76-20215
- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c44 N76-28646
- Reduction of nitric oxide emissions from a
combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260
- COMBUSTION CONTROL**
Pressurized gas injection for burning rate
control of solid propellants
[NASA-CASE-XIE-03494] c27 N71-21819
- COMBUSTION EFFICIENCY**
Fuel injection system for maximum combustion
efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
- COMBUSTION PHYSICS**
Characteristics of solid propellant rocket
engine with controlled rate of thrust buildup
operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784
- COMBUSTION PRODUCTS**
Contamination free separation nut eliminating
combustion products from ambient surroundings
generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
- Device for generating and controlling combustion
products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
- System for minimizing internal combustion engine
pollution emission
[NASA-CASE-NPO-13402-1] c37 N76-18457
- COMBUSTION STABILITY**
Rocket combustion chamber stability by
controlling transverse instability during
propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507
- COMMAND AND CONTROL**
Multiple rate digital command detection system
with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
- COMMAND MODULES**
Energy absorbing crew couch strut for Apollo
command module
[NASA-CASE-MSC-12279] c15 N72-17450
- COMMERCIAL AIRCRAFT**
Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027
- COMMUNICATING**
Communication between computers using two
identical communications links
[NASA-CASE-NPO-11161] c08 N72-25207
- COMMUNICATION**
Circuitry for developing autocorrelation
function continuously within signal receiving
period
[NASA-CASE-XNP-00746] c07 N71-21476
- Superconductive resonant cavity for improved
signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
- COMMUNICATION CABLES**
Method of making molded electric connector for
use with flat conductor cables
[NASA-CASE-XNP-03498] c15 N71-15986
- Process for making RF shielded cable connector
assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553
- COMMUNICATION EQUIPMENT**
Multiplexed communication system design
including automatic correction of transmission
errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
- Binary data decoding device for use at receiving
end of communication channel
[NASA-CASE-NPO-10118] c07 N71-24741
- Characteristics of data-aided carrier tracking
loop used for tracking carrier in angle
modulated communications system
[NASA-CASE-NPO-11282] c10 N73-16205
- Doppler compensated communication system for
locating supersonic transport position
[NASA-CASE-GSC-10087-4] c07 N73-20174
- Differential phase shift keyed communication
system
[NASA-CASE-MSC-14065-1] c32 N74-26654
- COMMUNICATION SATELLITES**
Erectable, inflatable, radio signal reflecting
passive communication satellite
[NASA-CASE-XIA-00210] c30 N70-40309
- Development of antenna system for spin
stabilized communication satellite for
simultaneous reception and transmission of data
[NASA-CASE-XGS-02607] c31 N71-23009
- Elimination of tracking occultation problems
occurring during continuous monitoring of
interplanetary missions by using Earth
orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
- Satellite radio communication system with remote
steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c03 N75-30132
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373
- COMMUTATION**
High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915
- COMMUTATORS**
Rocket-borne aspect sensor consisting of
radiation sensor, apertured disk, commutator,
and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
- Commutator for steering precisely controlled
bidirectional currents through numerous loads
by use of magnetic core shift registers
[NASA-CASE-NPO-10743] c08 N72-21199
- COMPARATOR CIRCUITS**
Describing frequency discriminator using digital
logic circuits and supplying single binary
output signal
[NASA-CASE-MFS-14322] c08 N71-18692
- Development of pulsed differential comparator
circuit
[NASA-CASE-XLE-03804] c10 N71-19471
- Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296
- COMPARATORS**
Photometric flow meter with comparator reference
means
[NASA-CASE-XGS-01331] c14 N71-22996
- Characteristics of comparator circuits for
comparison of binary numbers in information
processing system
[NASA-CASE-XNP-04819] c08 N71-23295
- COMPENSATORS**
Star image motion compensator using telescope
for maintaining fixed images
[NASA-CASE-LAR-10523-1] c14 N72-22444
- COMPONENTS**
Spherical bearing
[NASA-CASE-MFS-23447-1] c37 N77-11403
- COMPOSITE MATERIALS**
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[NASA-CASE-XLE-02428] c17 N70-33288
- Method for producing fiber reinforced metallic
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 [NASA-CASE-MSC-14331-1] c27 N76-24405
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 [NASA-CASE-XLA-01043] c28 N71-10780
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 fluid in liquid, gas, or liquid and gas phases
 [NASA-CASE-XLE-00143] c14 N70-36618
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 specimen by pressurized fluid
 [NASA-CASE-XKS-06250] c14 N71-15600
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 [NASA-CASE-XNP-08877] c15 N71-23025
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 [NASA-CASE-LAR-10489-1] c31 N74-18124
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 forces of compression
 [NASA-CASE-NPO-10832] c14 N72-21405
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 [NASA-CASE-LAR-10440-1] c14 N73-32323
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 subjecting metal specimen to tensile and
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 [NASA-CASE-LAR-10426-1] c09 N74-19528
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 blades to rotors and discs of jet engines
 [NASA-CASE-LEW-10533-1] c15 N73-28515
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 [NASA-CASE-XLA-00377] c33 N71-17610
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 [NASA-CASE-XGS-04768] c08 N71-19437
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 shifting logic operations also capable of
 miniaturization and integration in basic
 circuits
 [NASA-CASE-XNP-01753] c08 N71-22897
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 and computing devices
 [NASA-CASE-GSC-11839-1] c60 N77-14751
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 System for digitizing graphic displays
 [NASA-CASE-NPO-10745] c08 N72-22164
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 biorthogonal Reed-Muller type code comprising
 conversion of 64 6-bit words into 64 32-bit
 data for communication purposes
 [NASA-CASE-NPO-10595] c10 N71-25917
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 registers
 [NASA-CASE-NPO-13067-1] c60 N76-18800
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 Self testing and repairing computer comprising
 control and diagnostic unit and rollback
 points for error correction
 [NASA-CASE-NPO-10567] c08 N71-24633
 Development of computer program for estimating
 reliability of self-repair and fault-tolerant
 systems with respect to selected system and
 mission parameters
 [NASA-CASE-NPO-13086-1] c15 N73-12495
 Development of flight simulator system to show
 position of joystick displacement
 [NASA-CASE-NPO-11497] c08 N73-25206
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 Magnetic matrix memory system for nondestructive
 reading of information contained in matrix
 [NASA-CASE-XNP-05835] c08 N71-12504

- Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
- Pulsed magnetic core memory element with blocking oscillator feedback for interrogation without loss of digital information
[NASA-CASE-XGS-03303] c08 N71-18595
- Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
- Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624
- Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
- Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
- Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
- Memory device employing semiconductor and ferroelectric properties of single crystal barium titanate
[NASA-CASE-ERC-10307] c08 N72-21198
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914
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[NASA-CASE-KSC-11018-1] c33 N77-21320
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[NASA-CASE-MSC-13932-1] c62 N74-14920
- Computer interface system
[NASA-CASE-NPO-13428-1] c60 N77-12721
- COMPUTER TECHNIQUES**
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
- Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c37 N77-24497
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c09 N77-27131
- COMPUTERIZED DESIGN**
- Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c14 N77-18179
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- Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507
- COMPUTERS**
- Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
- Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
- Communication between computers using two identical communications links
[NASA-CASE-NPO-11161] c08 N72-25207
- CONCAVITY**
- Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-XGS-01036] c14 N70-40003
- CONCENTRATORS**
- Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602
- A non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c44 N77-28583
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c44 N77-32583
- CONDENSATES**
- Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139
- CONDENSERS (LIQUIFIERS)**
- Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
- Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139
- CONDUCTING FLUIDS**
- Multiducted electromagnetic pump for conductive liquids
[NASA-CASE-NFO-10755] c15 N71-27084
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c37 N75-19686
- CONDUCTIVE HEAT TRANSFER**
- Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156
- Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502
- CONDUCTORS**
- Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XMF-07587] c15 N71-18701
- Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c24 N75-13032
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- Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
- CONFINEMENT**
- Observation window for internal gas confining chamber
[NASA-CASE-NPO-10890] c11 N73-12265
- CONICAL BODIES**
- Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
- Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127
- Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130
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- Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XKS-03495] c14 N69-39785
- Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580
- Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722
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[NASA-CASE-XGS-01395] c03 N69-21539
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[NASA-CASE-XLA-01141] c15 N71-13789
- Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389
- Process for making RF shielded cable connector assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083
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[NASA-CASE-MSC-13282-1] c05 N71-24729
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- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417
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[NASA-CASE-GSC-10306-1] c15 N71-24694
- Cable guide and restraint device for reefing tubes in uniform manner
[NASA-CASE-LAR-10129-1] c15 N73-25512

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- Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
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[NASA-CASE-LAR-10129-2] c37 N74-20063
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- Apparatus and method of assembling building blocks by folding pre-cut flat sheets of material during on-site construction
[NASA-CASE-MSC-12233-1] c15 N72-25454
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[NASA-CASE-MSC-12233-2] c32 N73-13921
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[NASA-CASE-NPO-10123] c15 N71-24835
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[NASA-CASE-ERC-10045] c15 N71-24910
- Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397
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[NASA-CASE-XMS-01905] c12 N71-21089
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[NASA-CASE-XNP-02039] c15 N71-15871
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[NASA-CASE-XGS-01971] c15 N71-15922
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[NASA-CASE-NPO-10070] c15 N71-27372
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[NASA-CASE-GSC-10879-1] c14 N72-25413
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[NASA-CASE-LAR-12016-1] c32 N77-15236
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[NASA-CASE-XLE-2529-2] c36 N75-27364
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[NASA-CASE-XNP-04167-3] c36 N77-19416
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[NASA-CASE-MFS-22234-1] c32 N76-33364
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[NASA-CASE-XLA-08646] c14 N71-17586
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[NASA-CASE-MSC-13907-1] c10 N72-20225
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[NASA-CASE-LAR-11869-1] c35 N77-10497
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[NASA-CASE-ARC-10985-1] c52 N77-17701
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[NASA-CASE-XMS-05890] c09 N71-23191
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[NASA-CASE-XNP-04134] c14 N71-23755
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[NASA-CASE-MFS-23551-1] c04 N76-26175
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[NASA-CASE-XLE-00787] c14 N71-21090
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[NASA-CASE-NPO-13428-1] c60 N77-12721
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- Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
- Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687
- Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
- Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
- Controlled release device for use in launching rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043
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[NASA-CASE-XNP-07477] c09 N71-26092
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[NASA-CASE-XNP-01466] c10 N71-26434
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[NASA-CASE-XLE-09341] c12 N71-28741
- System for control of variable signal generator
[NASA-CASE-NPO-11064] c07 N72-11150
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[NASA-CASE-LEW-10387] c09 N72-22201
- Development of device for simulating charge and discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
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[NASA-CASE-GSC-10786-1] c10 N72-28241
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[NASA-CASE-ARC-10278-1] c14 N73-25463
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[NASA-CASE-LAR-10688-1] c37 N74-21056
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[NASA-CASE-NPO-11951-1] c37 N74-21065
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
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[NASA-CASE-NPO-13114-2] c44 N76-15573
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[NASA-CASE-RSC-11010-1] c44 N77-15493
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721
- CONTROL ROCKETS**
- Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
- CONTROL RODS**
- Nuclear reactor control rod assembly with

improved driving mechanism
[NASA-CASE-XLE-00298] c22 N70-34501

Manual control mechanism for adjusting control
rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740

CONTROL STABILITY
Design and development of active control system
for air cushion vehicle to reduce or eliminate
effects of excessive vertical vibratory
acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023

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Conical valve plug for use with reactive
cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859

Attitude control system for spacecraft based on
conversion of incident solar radiation on
movable control surfaces into mechanical torques
[NASA-CASE-XNP-02982] c31 N70-41855

Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N77-31176

CONTROL UNITS (COMPUTERS)
Self testing and repairing computer comprising
control and diagnostic unit and rollback
points for error correction
[NASA-CASE-NFO-10567] c08 N71-24633

CONTROL VALVES
Electromechanical actuator and its use in rocket
thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185

Multiple orifice fluid flow control valve to
provide different flow patterns
[NASA-CASE-ERC-10208] c15 N70-10867

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cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859

Control valve and coaxial variable injector for
controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654

Control valve for switching main stream of fluid
from one stable position to another by means
of electrohydrodynamic forces
[NASA-CASE-NFO-10416] c12 N71-27332

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in rocket engines
[NASA-CASE-NFO-10808] c15 N71-27432

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systems used in space flight environmental
control system
[NASA-CASE-MSC-13587-1] c15 N73-30459

Airflow control system for supersonic inlets
[NASA-CASE-LFW-11188-1] c02 N74-20646

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[NASA-CASE-NFO-13360-1] c37 N75-25185

Fluid valve assembly
[NASA-CASE-MSC-12731-1] c37 N76-26511

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[NASA-CASE-MSC-14905-1] c37 N77-28487

CONTROLLED ATMOSPHERES
Rectangular electric conductors for conductor
cables to withstand spacecraft vibration and
controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737

High voltage pulse generator for testing flash
and ignition limits of nonmetallic materials
in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518

System for continuous monitoring of exhalations,
weighing, and cage cleaning for animal exposed
to controlled atmosphere for toxic study
[NASA-CASE-XAC-05333] c11 N71-22875

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Unitary three-axis controller for flight
vehicles within or outside atmosphere
[NASA-CASE-XFR-00181] c21 N70-33279

Two axis flight controller with potentiometer
control shafts directly coupled to rotatable
ball members
[NASA-CASE-XFR-04104] c03 N70-42073

Hand controller operable about three
respectively perpendicular axes and capable of
actuating signal generators for attitude
control devices
[NASA-CASE-XMS-07487] c15 N71-23255

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942

Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c33 N77-21322

CONVECTIVE FLOW
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geysering during convective circulation of
cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486

CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective
heat transfer rates along test surfaces in
wind tunnels
[NASA-CASE-NFO-10617-1] c35 N74-22095

CONVERGENCE
Electrical device for developing converging
spherical shock waves
[NASA-CASE-MFS-20890] c14 N72-22439

CONVERGENT NOZZLES
Nozzle extraction process and handmeter for
measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198

CONVERGENT-DIVERGENT NOZZLES
Gimballed partially submerged nozzle for solid
propellant rocket engines for providing
directional control
[NASA-CASE-XNP-01544] c28 N70-34162

Regenerative cooling system for rocket
combustion chamber using coolant tubes in
convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-23968

CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NFO-10166-2] c35 N76-16391

Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471

COOLANTS
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apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669

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elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486

Dissipative voltage regulator system for
minimizing heat dissipation
[NASA-CASE-GSC-10891-1] c10 N71-26626

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using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440

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[NASA-CASE-NFO-13147-1] c36 N77-25502

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[NASA-CASE-MFS-14114-2] c09 N71-24807

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and cooling processes
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[NASA-CASE-NFO-10711-1] c35 N77-21392

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[NASA-CASE-IGS-02749]

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[NASA-CASE-GSC-11744-1]

c33 N75-26243

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Synchronous detection system for detecting weak radio astronomical signals

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[NASA-CASE-NFO-13982-1]

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[NASA-CASE-XLA-00284]

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Method to prevent stress corrosion cracking in titanium alloys

[NASA-CASE-NPO-10271]

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[NASA-CASE-LEW-10327]

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[NASA-CASE-NPO-12122-1]

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High strength, corrosion resistant cobalt-based alloys for aerospace structures

[NASA-CASE-XLR-00726]

c17 N71-15644

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[NASA-CASE-XNP-03459-2]

c18 N71-15688

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[NASA-CASE-XLR-02991]

c17 N71-16025

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[NASA-CASE-XNP-03459]

c15 N71-21078

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[NASA-CASE-NFO-13823-1]

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[NASA-CASE-LAR-10503-1]

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[NASA-CASE-LAR-10310-1]

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[NASA-CASE-GSC-10503-1]

c14 N72-20381

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[NASA-CASE-GSC-11291-1]

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[NASA-CASE-MSC-13802-2]

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[NASA-CASE-NFO-13579-1]

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[NASA-CASE-XMS-01240]

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[NASA-CASE-XGS-05434] c03 N71-20491

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[NASA-CASE-GSC-10487-1] c03 N71-24719

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[NASA-CASE-XNP-06234] c10 N71-27137

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[NASA-CASE-LAR-10756-1] c32 N73-26910

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Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432

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[NASA-CASE-XGS-03095] c09 N69-27463

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[NASA-CASE-XMF-00421] c09 N70-34502

Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673

Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797

Electronic counter circuit utilizing magnetic core and low power consumption
[NASA-CASE-XNP-08836] c09 N71-12515

Synchronous counter design incorporating cascaded binary stages driven by previous stages and inputs through NAND gates
[NASA-CASE-XGS-02440] c08 N71-19432

Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896

Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897

Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891

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[NASA-CASE-ARC-10364-2(B)] c33 N74-14941

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[NASA-CASE-MSC-14649-1] c33 N76-16331

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[NASA-CASE-MPS-22880-1] c33 N76-31410

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Coupling device for linear shaped charge for space vehicle abort system
[NASA-CASE-XLA-00189] c33 N70-36846

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[NASA-CASE-NFO-11059] c15 N72-17454

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High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430

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[NASA-CASE-MPS-21660-1] c35 N74-21017

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[NASA-CASE-LAR-11264-1] c33 N75-27261

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[NASA-CASE-XMS-07846-1] c09 N69-21927

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[NASA-CASE-XLA-02854] c15 N69-27490

Space vehicle stage coupling and quick release separation mechanism
[NASA-CASE-XLA-01441] c15 N70-41679

Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808

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[NASA-CASE-XKS-01985] c15 N71-10782

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[NASA-CASE-MPS-12805] c15 N71-17805

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[NASA-CASE-XNP-06914] c15 N71-21489

Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MPS-20395] c15 N71-24903

Coupling arrangement for isolating torque loads from axial, radial, and bending loads
[NASA-CASE-XLA-04897] c15 N72-22482

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[NASA-CASE-NFO-13504-1] c33 N75-30430

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c35 N77-27366

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[NASA-CASE-XMF-04132] c15 N69-27502

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[NASA-CASE-NFO-10271] c17 N71-16393

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[NASA-CASE-LAR-11490-1] c35 N76-28530

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[NASA-CASE-MPS-16609-3] c03 N76-32140

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[NASA-CASE-NFO-10070] c15 N71-27372

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[NASA-CASE-NFO-13862-1] c32 N77-17325

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[NASA-CASE-XLA-00675] c25 N70-33267

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[NASA-CASE-XLE-00212] c03 N70-34134

Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562

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New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NFO-10714] c06 N69-31244

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[NASA-CASE-LEW-12053-1] c27 N74-34579

Polymeric foams from cross-linkable poly-N-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c27 N76-28421

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Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483

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[NASA-CASE-NFO-10309] c15 N69-23190
Low thermal loss piping arrangement for moving cryogenic media through double chamber structure
[NASA-CASE-XNP-08882] c15 N69-39935
Method and apparatus for removing plastic insulation from wire using cryogenic equipment
[NASA-CASE-NFS-10340] c15 N71-17628
Dual solid cryogenics for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
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[NASA-CASE-NPO-11177] c15 N72-17453
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[NASA-CASE-GSC-12173-1] c52 N77-27693

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[NASA-CASE-XLE-00345] c15 N70-38020
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[NASA-CASE-XMS-04390] c31 N70-41871
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[NASA-CASE-XLA-01967] c31 N70-42015
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[NASA-CASE-XLE-03803-2] c15 N71-17651
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[NASA-CASE-NFS-14023] c33 N71-25351
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[NASA-CASE-XNP-05046] c33 N71-28892
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[NASA-CASE-ABC-10442-1] c35 N74-15093

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[NASA-CASE-XAC-02407] c14 N69-27423
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[NASA-CASE-XLE-00288] c15 N70-34247
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[NASA-CASE-XLE-00715] c15 N70-34859
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[NASA-CASE-XLE-00397] c15 N70-36492
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[NASA-CASE-XLE-00688] c14 N70-41330

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[NASA-CASE-XGS-02441] c15 N70-41629
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[NASA-CASE-XLE-00586] c15 N71-15968
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[NASA-CASE-NPO-10250] c23 N71-16212
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[NASA-CASE-XLE-02823] c09 N71-23443
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[NASA-CASE-XLE-04503] c14 N71-24864
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 Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas [NASA-CASE-ARC-10631-1] c74 N76-20958
DENSITY MEASUREMENT
 Capacitor for measuring density of compressible fluid in liquid, gas, or liquid and gas phases [NASA-CASE-XLE-00143] c14 N70-36618
 Measuring density of single and two-phase cryogenic fluids in rocket fuel tanks [NASA-CASE-XLE-00688] c14 N70-41330
 Determining particle density using known material Hugoniot curves [NASA-CASE-LAR-11059-1] c76 N75-12810
DENTISTRY
 Process for preparing calcium phosphate salts for tooth repair [NASA-CASE-ERC-10338] c04 N72-33072
DEPLOYMENT
 Extendable, self-deploying boom apparatus [NASA-CASE-GSC-10566-1] c15 N72-18477
 Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading [NASA-CASE-NPO-10883] c31 N72-22874
DEPOSITION
 Means and methods of depositing thin films on substrates [NASA-CASE-XNP-00595] c15 N70-34967
 Dual wavelength system for monitoring film deposition [NASA-CASE-MFS-20675] c26 N73-26751
 Production of pure metals [NASA-CASE-LEW-10906-1] c25 N74-30502
DESALINIZATION
 Water purification process [NASA-CASE-ARC-10643-2] c51 N75-13506
DESCENT
 Emergency descent device [NASA-CASE-MFS-23074-1] c54 N77-21844
DESIGN ANALYSIS
 Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil [NASA-CASE-LAR-10585-1] c02 N76-22154
 Two dimensional wedge/translating shroud nozzle [NASA-CASE-LAR-11919-1] c07 N76-22202
 Snap-in compressible biomedical electrode [NASA-CASE-MSC-14623-1] c52 N77-28717
DETECTION
 Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction [NASA-CASE-MSC-12084-1] c12 N71-17569
 Fluid leakage detection system with automatic monitoring capability [NASA-CASE-LAR-10323-1] c12 N71-17573
 Metal detection system with electromagnetic transmitter with single coil and receiver with single coil [NASA-CASE-ARC-10265-1] c10 N72-28240
 System for detecting impact position of cosmic dust on detector surface

- [NASA-CASE-GSC-11291-1] c25 N72-33696
 Detection of bacteria in biological fluids and foods
 [NASA-CASE-GSC-11533-1] c14 N73-13435
 Short range laser obstacle detector --- for surface vehicles using laser diode array
 [NASA-CASE-NFO-11856-1] c36 N74-15145
 Vacuum leak detector
 [NASA-CASE-LAR-11237-1] c35 N75-19612
 Detection of microbial infection in blood and antibiotic determinations
 [NASA-CASE-GSC-12045-1] c52 N77-18733
- DETECTORS**
 Pressurized cell micrometeoroid detector
 [NASA-CASE-XLA-00936] c14 N71-14996
 Development of large area micrometeoroid impact detector panels
 [NASA-CASE-XIF-05906] c31 N71-16221
 Development of pulse-activated pclarographic hydrogen detector
 [NASA-CASE-XNP-06531] c14 N71-17575
 Electro-optical detector for determining position of light source
 [NASA-CASE-XNP-01059] c23 N71-21821
 Method for locating leaks in hermetically sealed containers
 [NASA-CASE-ERC-10045] c15 N71-24910
 Precipitation detector and mechanism for stopping and restarting machinery at initiation and cessation of rain
 [NASA-CASE-XLA-02619] c10 N71-26334
 Hydrogen fire blink detector for high altitude rocket or ground installation
 [NASA-CASE-NFS-15063] c14 N72-25412
 Device for detection of combustion light preceding gaseous explosions
 [NASA-CASE-LAR-10739-1] c14 N73-16484
 Optical imaging system for increasing light absorption efficiency of imaging detector
 [NASA-CASE-ARC-10194-1] c23 N73-20741
 Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
 [NASA-CASE-LAR-10483-1] c14 N73-32327
 Deployable pressurized cell structure for a micrometeoroid detector
 [NASA-CASE-LAR-10295-1] c35 N74-21062
 Modulated hydrogen ion flame detector
 [NASA-CASE-ARC-10322-1] c35 N76-18403
- DETERGENTS**
 Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
 [NASA-CASE-MSC-13530-2] c23 N75-14834
- DETONATION**
 Optically detonated explosive device
 [NASA-CASE-NFO-11743-1] c28 N74-27425
- DETONATION WAVES**
 Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
 [NASA-CASE-XMP-06926] c28 N71-22983
- DEUTERIUM**
 Gas chromatographic method for analyzing hydrogen deuterium mixtures
 [NASA-CASE-NFO-11322] c06 N72-25146
 Deuterium pass through target --- neutron emitting target
 [NASA-CASE-LEW-11866-1] c72 N76-15860
- DIAGNOSIS**
 Apparatus for producing high purity I-123 --- for thyroid measurement
 [NASA-CASE-LEW-10518-3] c31 N74-10476
- DIAPHRAGMS**
 Phototransistor with base collector junction diode for integration into photo sensor arrays
 [NASA-CASE-NFS-20407] c09 N73-19235
- DIAMINES**
 Preparation of elastomeric diamine silazane polymers
 [NASA-CASE-XNP-04133] c06 N71-20717
 Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
 [NASA-CASE-XMP-03074] c06 N71-24740
 Synthesis of siloxane containing epoxide and diamine polymers
 [NASA-CASE-NFS-13994-2] c06 N72-25148
 Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
- [NASA-CASE-LEW-11325-1] c06 N73-27980
- DIAMONDS**
 Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
 [NASA-CASE-NFS-20698] c15 N72-20446
 Simplified technique and device for producing industrial grade synthetic diamonds
 [NASA-CASE-NFS-20698-2] c15 N73-19457
- DIAPHRAGMS (MECHANICS)**
 Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
 [NASA-CASE-XMS-01546] c14 N70-40233
 Reinforcing beam system for highly flexible diaphragms in valves or pressure switches
 [NASA-CASE-XNP-01962] c32 N70-41370
 Flexible rocket motor nozzle closure device to aid ignition and protect rocket chamber from foreign objects
 [NASA-CASE-XLA-02651] c28 N70-41967
 Knife structure for controlling rupture of shock tube diaphragms
 [NASA-CASE-XAC-00731] c11 N71-15960
 Magnetically opened diaphragm design with camera shutter and expansion tube applications
 [NASA-CASE-XLA-03660] c15 N71-21060
 Design and development of inertia diaphragm pressure transducer
 [NASA-CASE-XAC-02981] c14 N71-21072
 Punch and die device for forming convolution series in thin gage metal hemispheres
 [NASA-CASE-XNP-05297] c15 N71-23811
 Rubber composition for expulsion bladders and diaphragms for use with hydrazine
 [NASA-CASE-NFO-11433] c18 N71-31140
 Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch
 [NASA-CASE-NFS-14216] c14 N73-13418
 Spacesuit mobility joints
 [NASA-CASE-ARC-11058-1] c54 N77-15641
- DIATOMIC GASES**
 Diatomic infrared gasdynamic laser --- for producing different wavelengths
 [NASA-CASE-ARC-10370-1] c36 N75-31426
- DICHROISM**
 Dichroic plate --- as bandpass filters
 [NASA-CASE-NPO-13506-1] c35 N76-15435
- DIELECTRIC PROPERTIES**
 Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
 [NASA-CASE-NFS-21629] c14 N72-22442
 Fine particulate capture device
 [NASA-CASE-LEW-11583-1] c37 N74-13199
- DIELECTRICS**
 Fabricating solar cells with dielectric layers to improve glass fusion
 [NASA-CASE-XGS-04531] c03 N69-24267
 Temperature sensitive capacitor device for detecting very low intensity infrared radiation
 [NASA-CASE-XNP-09750] c14 N69-39937
 Electrical power system for space flight vehicles operating over extended periods
 [NASA-CASE-XNP-00517] c03 N70-34157
 Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
 [NASA-CASE-XMS-04312] c07 N71-22984
 Broadband microwave waveguide window to compensate dielectric material filling
 [NASA-CASE-XNP-08880] c09 N71-24808
 Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
 [NASA-CASE-XQN-10541-2] c15 N71-27135
 Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
 [NASA-CASE-ERC-10011] c07 N71-29065
 Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
 [NASA-CASE-XER-08476-1] c26 N72-17820
 Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
 [NASA-CASE-LAR-10294-1] c26 N72-28762

- Low loss dichroic plate
[NASA-CASE-WFO-13171-1] c32 N74-11000
- Electrostatic measurement system --- for
contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c33 N75-18477
- Method and apparatus for measurement of trap
density and energy distribution in dielectric
films
[NASA-CASE-NPO-13443-1] c76 N76-20994
- Charge injection method and apparatus of
producing large area electrets
[NASA-CASE-MFS-23186-1] c33 N76-23483
- DIES**
Punch and die device for forming convolution
series in thin gage metal hemispheres
[NASA-CASE-INP-05297] c15 N71-23811
- Development and characteristics of
frusto-conical die nib for extrusion of
refractory metals
[NASA-CASE-XLE-06773] c15 N71-23817
- DIESEL ENGINES**
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c37 N77-11398
- DIETS**
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270
- DIFFERENTIAL AMPLIFIERS**
Temperature compensated solid state differential
amplifier with application in
biinstrumentation circuits
[NASA-CASE-IAC-00435] c09 N70-35440
- Stepping motor control apparatus exciting
windings in proper time sequence to cause
motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
- DIFFERENTIAL INTERFEROMETRY**
Device for determining acceleration of gravity
by interferometric measurement of travel of
falling body
[NASA-CASE-INP-05844] c14 N71-17587
- DIFFERENTIAL PRESSURE**
Relief valve to permit slow and fast bleeding
rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
- Apparatus for ejecting covers of instrument
packages using differential pressure principle
[NASA-CASE-INP-04132] c15 N69-27502
- Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c35 N77-11363
- DIFFERENTIATORS**
Window comparator
[NASA-CASE-FEC-10090-1] c33 N77-11296
- DIFFRACTION**
Highly stable optical mirror assembly optimizing
image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
- DIFFRACTION PATTERNS**
Digital sensor for counting fringes produced by
interferometers with improved sensitivity and
one photomultiplier tube to eliminate
alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
- DIFFRACTOMETERS**
Dual purpose optical instrument capable of
simultaneously acting as spectrometer and
diffractometer
[NASA-CASE-INP-05231] c14 N73-28491
- DIFFUSERS**
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c23 N73-32538
- Application of semiconductor diffusants to solar
cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589
- DIFFUSION**
Selective gold diffusion on monolithic silicon
chips for switching and nonswitching amplifier
devices and circuits and linear and digital
logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148
- Metallic film diffusion for boundary lubrication
in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
- Transmitting and reflecting diffuser --- for
ultraviolet light
[NASA-CASE-LAR-10385-2] c70 N74-13436
- DIFFUSION PUMPS**
Oil trap for preventing diffusion pump
backstreaming into evacuated system
[NASA-CASE-GSC-10518-1] c15 N72-22489
- Programmable physiological infusion
[NASA-CASE-ABC-10447-1] c52 N74-22771
- DIFFUSION WELDING**
Method for diffusion welding dissimilar metals
in vacuum chamber
[NASA-CASE-GSC-10303] c15 N72-22487
- Reinforced FEP Teflon composite material
diffusion bonded to metal substrate
[NASA-CASE-MFS-20482] c15 N72-22492
- Two-step diffusion welding process of
unrecrystallized alloys
[NASA-CASE-LEW-11388-1] c15 N73-32358
- Method of fluxless brazing and diffusion bonding
of aluminum containing components
[NASA-CASE-MSC-14435-1] c37 N76-18455
- A complementary DMOS-VMOS integrated circuit
structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
- DIGITAL COMMAND SYSTEMS**
Digitally controlled frequency synthesizer for
pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
- System for maintaining motor at predetermined
speed using digital pulses
[NASA-CASE-XMP-06892] c09 N71-24805
- Digital filter for reducing jitter in digital
control systems
[NASA-CASE-NPO-11088] c08 N71-29034
- DIGITAL COMPUTERS**
Device for removing plastic dust cover from
digital computer disk packs for inspection and
cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819
- Binary number sorter for arranging numbers in
order of magnitude
[NASA-CASE-WFO-10112] c08 N71-12502
- Binary sequence detector with few memory
elements and minimized logic circuit complexity
[NASA-CASE-INP-05415] c09 N71-12505
- Digital computer system for automatic prelaunch
checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566
- Description of error correcting methods for use
with digital data computers and apparatus for
encoding and decoding digital data
[NASA-CASE-INP-02748] c08 N71-22749
- Serial digital decoder design with square
circuit matrix and serial memory storage units
[NASA-CASE-WFO-10150] c08 N71-24650
- Digital magnetic core memory with sensing
amplifier circuits
[NASA-CASE-INP-01012] c08 N71-28925
- Redundant memory for enhanced reliability of
digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
- Digital converter for scaling binary number to
binary coded decimal number of higher multiple
[NASA-CASE-KSC-10595] c08 N73-12176
- Fault tolerant clock apparatus utilizing a
controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504
- Two-dimensional radiant energy array computers
and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803
- Two-dimensional radiant energy array computers
and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751
- DIGITAL DATA**
Phase shift data transmission system with
pseudo-noise synchronization code modulated
with digital data into single channel for
spacecraft communication
[NASA-CASE-INP-00911] c08 N70-41961
- Tape guidance system for multichannel digital
recording system
[NASA-CASE-INP-09453] c08 N71-19420
- Digital telemetry system apparatus to reduce
tape recorder wow and flutter noise during
playback
[NASA-CASE-XGS-01812] c07 N71-23001
- Digital data handling circuits for pulse
amplifiers
[NASA-CASE-INP-01068] c10 N71-28739
- Bit synchronization system using digital data
transition tracking phased locked loop
[NASA-CASE-NPO-10844] c07 N72-20140
- Control and information system for digital
telemetry data using analog converter to
digitize sensed parameter values

- [NASA-CASE-NFO-11016] c08 N72-31226
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XKS-00348] c09 N73-14215
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NFO-13676-1] c60 N77-24781
- DIGITAL FILTERS**
Design and development of signal detection and tracking apparatus
[NASA-CASE-XGS-03502] c10 N71-20852
Digital filter for reducing jitter in digital control systems
[NASA-CASE-NFO-11088] c08 N71-29034
Nonrecursive counting digital filter containing shift register
[NASA-CASE-NFO-11821-1] c08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-NFS-22729-1] c32 N76-21366
- DIGITAL SPACECRAFT TELEVISION**
TV camera output signal control system for digital spacecraft communication
[NASA-CASE-XNP-01472] c14 N70-41807
- DIGITAL SYSTEMS**
Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
Circuit diagram and operation of full binary adder
[NASA-CASE-XGS-00689] c08 N70-34787
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NFO-11130] c08 N72-20176
Digital function generator for generating any arbitrary single valued function
[NASA-CASE-NFO-11104] c08 N72-22165
Digital video system for displaying image and alphanumeric data on cathode ray tube
[NASA-CASE-NFO-11342] c09 N72-25248
Data compression using decreasing slope threshold test and digital techniques
[NASA-CASE-NFO-11630] c08 N72-33172
Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
Low phase noise frequency divider for use with deep space network communication system
[NASA-CASE-NFO-11569] c10 N73-26229
Synchronized digital communication system
[NASA-CASE-XNP-03623] c09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NFO-11905-1] c33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c32 N77-10392
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NFO-13753-1] c32 N77-20289
- Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321
Digital demodulator-correlator --- for range-finding
[NASA-CASE-NFO-13982-1] c32 N77-24341
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c33 N77-24375
- DIGITAL TECHNIQUES**
Describing frequency discriminator using digital logic circuits and supplying single binary output signal
[NASA-CASE-MFS-14322] c08 N71-18692
Constructing Exclusive-Or digital logic circuit in single module
[NASA-CASE-XLA-07732] c08 N71-18751
Horizon sensor design with digital sampling of spaced radiation-compensated thermopile infrared detectors
[NASA-CASE-XNP-06957] c14 N71-21088
Digital cardiograph incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NFO-10851] c07 N71-24613
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XKS-00348] c09 N73-14215
Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040
- DIGITAL TO ANALOG CONVERTERS**
Development and characteristics of rate augmented digital to analog converter for computed time-dependent data
[NASA-CASE-XLA-07828] c08 N71-27057
Digital to analog converter with parallel input/output memory device
[NASA-CASE-KSC-10397] c08 N72-25206
Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
- DIGITAL TRANSDUCERS**
Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c35 N77-11364
- DIISOCYANATES**
Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
- DIMENSIONS**
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c74 N76-13909
- DIODES**
Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-XKS-03381] c09 N71-22796
Maintaining current flow through solar cells with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236

- Development of method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c15 N72-25457
- Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
- Silicon carbide backward diode with coated lead attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c33 N74-14941
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c33 N74-22814
- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319
- A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385
- DIPLOLE ANTENNAS**
- Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
- DIRECT CURRENT**
- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330
- Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987
- Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
- Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
- Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
- Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
- Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
- Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-XMP-14301] c09 N71-23188
- Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-XMP-08217] c03 N71-23239
- Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
- Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-23573
- Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-NFS-20385] c09 N71-24904
- Inverters for changing direct current to alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
- Circuits for controlling reversible dc motor
[NASA-CASE-XNP-07477] c09 N71-26092
- Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-NFS-14610] c09 N71-28886
- High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
- Power converters for supplying direct current at one voltage from source at another voltage
[NASA-CASE-XER-11046] c09 N72-22203
- Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
- Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-XGS-07805] c15 N72-33476
- Powerplexer for distribution of dc power levels to loads which require different voltages
[NASA-CASE-MSC-12396-1] c03 N73-31988
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c33 N74-21851
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c33 N74-22864
- Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239
- Method of electrically pre-stressing insulation to provide directional increase in dc potential breakdown
[NASA-CASE-LEW-12273-1] c33 N77-17357
- Direct current transformer
[NASA-CASE-NFS-23659-1] c33 N77-20341
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386
- DIRECT POWER GENERATORS**
- Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
- Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
- Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-XMP-08217] c03 N71-23239
- Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c33 N74-22864
- Cesium thermionic converters having lanthanum hexaboride electrodes
[NASA-CASE-LEW-12038-2] c44 N77-32595
- DIRECTIONAL ANTENNAS**
- Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
- Weatherproof helix antenna
[NASA-CASE-XKS-08485] c07 N71-19493
- Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
- Drive system for parabolic tracking antenna with reversible motion and minimal backlash
[NASA-CASE-NPO-10173] c15 N71-24696
- Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295
- DIRECTIONAL CONTROL**
- Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-XMP-01544] c28 N70-34162
- Omnidirectional wheel
[NASA-CASE-NFS-21309-1] c37 N74-18125
- DIRECTIONAL STABILITY**
- Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-NFS-21311-1] c20 N76-21275
- DISCONNECT DEVICES**
- Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
- Remotely actuated quick disconnect mechanism for umbilical cables
[NASA-CASE-XLA-00711] c03 N71-12258
- Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259
- Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789
- Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489

DISCONTINUITY

Electrical circuit selection device for
simulating stage separation of flight vehicle
[NASA-CASE-XKS-04631] c10 N71-23663

Quick disconnect duct coupling device for
single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903

Breakaway multiwire electrical cable connector
with particular application for umbilical type
cables
[NASA-CASE-NPO-11140] c15 N72-17455

Torsional disconnect device for releasably
coupling distal ends of fluid conduits
[NASA-CASE-NPO-10704] c15 N72-20445

Frangible connecting link suitable for rocket
stage separation
[NASA-CASE-MSC-11849-1] c15 N72-22488

Gas operated quick disconnect coupling for
umbilical connectors
[NASA-CASE-NPO-11202] c15 N72-25450

Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c37 N76-14463

Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c37 N77-15397

DISCONTINUITY

Servocontrol system for measuring local stresses
at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360

DISCRIMINATORS

Detector assembly for discriminating first
signal with respect to presence or absence of
second signal at time of occurrence of first
signal
[NASA-CASE-XMP-00701] c09 N70-40272

Difference indicating circuit used in
conjunction with device measuring
gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537

Describing frequency discriminator using digital
logic circuits and supplying single binary
output signal
[NASA-CASE-MFS-14322] c08 N71-18692

Circuit design for determining amount of
photomultiplier tube light detection utilizing
variable current source and dark current
signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040

Characteristics of comparator circuits for
comparison of binary numbers in information
processing system
[NASA-CASE-XNP-04819] c08 N71-23295

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041

DISPENSERS

Liquid aerosol dispenser with explosively driven
piston to compress light gas to extremely high
pressure
[NASA-CASE-MFS-20829] c12 N72-21310

Potable water dispenser
[NASA-CASE-MFS-21115-1] c54 N74-12779

Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c37 N74-13178

Metering gun for dispensing precisely measured
charges of fluid
[NASA-CASE-MFS-21163-1] c54 N74-17853

Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c54 N75-32766

DISPENSING

Apparatus for mechanically dispersing ultrafine
metal powders subjected to shock waves
[NASA-CASE-XLE-04946] c17 N71-24911

DISPERSIONS

Method for producing alkali metal dispersions of
high purity
[NASA-CASE-XNP-08876] c17 N73-28573

Apparatus for measuring a sorbate dispersed in a
fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389

DISPLACEMENT

Bi-metallic fluid displacement apparatus --- for
stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126

DISPLACEMENT MEASUREMENT

Null-type vacuum microbalance for measuring
minute mechanical displacements
[NASA-CASE-XAC-00472] c15 N70-40180

Development and characteristics of self-
calibrating displacement transducer for

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measuring magnitude and frequency of
displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999

Gas bearing for model support with capacity for
measuring angular displacement of model in
bearing
[NASA-CASE-XLA-09346] c15 N71-28740

Method and apparatus for remote measurement of
displacement of marks on specimen undergoing
tensile test
[NASA-CASE-NPO-10778] c14 N72-11364

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 N76-19338

DISPLAY DEVICES

Integrated time shared instrumentation display
for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507

Data processing and display system for terminal
guidance of F-15 aircraft
[NASA-CASE-XPR-00756] c02 N71-13421

Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c12 N71-18603

Cathode ray tube system for displaying ones and
zeros in binary wave train
[NASA-CASE-XGS-04987] c08 N71-20571

Optical projector system for establishing
optimum arrangement of instrument displays in
aircraft, spacecraft, other vehicles, and
industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882

Optical monitor panel consisting of translucent
screen with test or meter information
projected onto it from rear for application in
control rooms of missile launching and
tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175

Binary to decimal decoder logic circuit design
with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890

Noninterruptable digital counter circuit design
with display device for pulse frequency
modulation
[NASA-CASE-XNP-09759] c08 N71-24891

Data acquisition system for converting displayed
analog signal to digital values
[NASA-CASE-NPO-10344] c10 N71-26544

Plasma-fluidic hybrid display system combining
high brightness and memory characteristics
[NASA-CASE-ERC-10100] c09 N71-33519

System for digitizing graphic displays
[NASA-CASE-NPO-10745] c08 N72-22164

Digital video system for displaying image and
alphanumeric data on cathode ray tube
[NASA-CASE-NPO-11342] c09 N72-25248

Development of apparatus for mounting scientific
experiments in spacecraft to permit
utilization without maneuvering spacecraft
[NASA-CASE-MSC-12372-1] c31 N72-25842

Development and characteristics for
automatically displaying digits in any desired
order using optical techniques
[NASA-CASE-XKS-00348] c09 N73-14215

Situational display system of cathode ray tubes
to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474

Device for displaying and recording angled views
of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499

Transparent switchboard which permits optical
display devices to be adapted for use in man
machine communications
[NASA-CASE-MSC-13746-1] c10 N73-32143

Recorder/processor apparatus --- for optical
data processing
[NASA-CASE-GSC-11553-1] c35 N74-15831

Rotating raster generator
[NASA-CASE-PRC-10071-1] c32 N74-20813

G-load measuring and indicator apparatus --- for
aircraft
[NASA-CASE-ARC-10806] c06 N74-27872

Field sequential stereo television
[NASA-CASE-MSC-12616-1] c32 N74-32601

X-Y alphanumeric character generator for
oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517

Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c09 N76-10148

Projection system for display of parallax and
perspective

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[NASA-CASE-MFS-23194-1] c74 N76-13909
 Turbulence intensity indicator
 [NASA-CASE-LAR-11833-1] c06 N76-31229
 EKG and ultrasonoscope display
 [NASA-CASE-ARC-10994-2] c52 N77-15619
 Crosswind landing gear position indicator
 [NASA-CASE-LAR-11941-1] c06 N77-20098
 Binocular device for displaying numerical
 information in field of view
 [NASA-CASE-LAR-11782-1] c74 N77-20882

DISSIPATION
 Dissipative voltage regulator system for
 minimizing heat dissipation
 [NASA-CASE-GSC-10891-1] c10 N71-26626

DISSOCIATION
 Solar hydrogen generator
 [NASA-CASE-LAR-11361-1] c44 N77-22607

DISSOLVING
 Apparatus for mixing two or more liquids under
 zero gravity conditions
 [NASA-CASE-LAR-10195-1] c15 N73-19458

DISTANCE MEASURING EQUIPMENT
 Binary coded sequential acquisition ranging
 system for distance measurements
 [NASA-CASE-NPO-11194] c08 N72-25209
 Apparatus for determining distance to lighting
 strokes from single station by magnetic and
 electric field sensing antennas
 [NASA-CASE-KSC-10698] c07 N73-20175

DISTILLATION EQUIPMENT
 Utilization of solar radiation by solar still
 for converting salt and brackish water into
 potable water
 [NASA-CASE-XMS-04533] c15 N71-23086
 Purification apparatus for vaporization and
 fractional distillation of liquids
 [NASA-CASE-XNP-08124] c15 N71-27184
 U shaped heated tube for distillation and
 purification of liquid metals
 [NASA-CASE-XNP-08124-2] c06 N73-13129

DISTRIBUTED AMPLIFIERS
 Broadband distribution amplifier with
 complementary pair transistor output stages
 [NASA-CASE-NPO-10003] c10 N71-26415

DISTRIBUTORS
 High voltage distributor
 [NASA-CASE-GSC-11849-1] c33 N76-16332

DIVERGENT NOZZLES
 Jet exhaust noise suppressor
 [NASA-CASE-LEW-11286-1] c07 N74-27490

DIVIDERS
 A synchronous binary array divider
 [NASA-CASE-ERC-10180-1] c60 N74-20836

DOCUMENT STORAGE
 Describing device for flagging punched business
 cards
 [NASA-CASE-XLA-02705] c08 N71-15908

DOORS
 Design and specifications of emergency escape
 system for spacecraft structures
 [NASA-CASE-MSC-12086-1] c 5 N71-12345

DOPPLER EFFECT
 Doppler frequency shift correction device for
 multiplex communication with applications
 Technology Satellites
 [NASA-CASE-XGS-02749] c07 N69-39978
 Describing laser Doppler velocimeter for
 measuring mean velocity and turbulence of
 fluid flow
 [NASA-CASE-MFS-20386] c21 N71-19212
 Doppler compensated communication system for
 locating supersonic transport position
 [NASA-CASE-GSC-10087-4] c07 N73-20174
 Doppler shift system --- system for measuring
 velocities of radiating particles
 [NASA-CASE-BQN-10740-1] c72 N74-19310

DOPPLER RADAR
 Cooperative Doppler radar system for avoiding
 midair collisions
 [NASA-CASE-LAR-10403] c21 N71-11766

DOSIMETERS
 Development of dosimeter for measuring absorbed
 dose of high energy ionizing radiation
 [NASA-CASE-XLA-03645] c14 N71-20430

DRAG CHUTES
 Deployment system for flexible wing with rigid
 superstructure
 [NASA-CASE-XIA-01220] c02 N70-41863

Lightweight, variable solidity knitted parachute
 fabric --- for aerodynamic decelerators
 [NASA-CASE-LAR-10776-1] c02 N74-10034

DRAG MEASUREMENT
 Device for measuring drag forces in flight tests
 [NASA-CASE-XLA-00113] c14 N70-33386
 Electric analog for measuring induced drag on
 nonplanar airfoils
 [NASA-CASE-XLA-00755] c01 N71-13410
 Electric analog for measuring induced drag on
 nonplanar airfoils
 [NASA-CASE-XLA-05828] c01 N71-13411
 Impact energy absorber with decreasing
 absorption rate
 [NASA-CASE-XLA-01530] c14 N71-23092

DRAG REDUCTION
 Directed fluid stream for propeller blade
 loading control
 [NASA-CASE-XAC-00139] c02 N70-34856
 Aircraft wheel spray drag alleviator for dual
 tandem landing gear
 [NASA-CASE-XLA-01583] c02 N70-36825

DRIFT (INSTRUMENTATION)
 Automatic measuring and recording of gain and
 zero drift characteristics of electronic
 amplifier
 [NASA-CASE-XMS-05562-1] c09 N69-39986
 Solar radiation direction detector and device
 for compensating degradation of photocells
 [NASA-CASE-XLA-00183] c14 N70-40239
 Failure detection and control means for improved
 drift performance of a gimbaled platform system
 [NASA-CASE-MFS-23551-1] c04 N76-26175

DRILL BITS
 Impact bit for cutting, collecting, and storing
 samples such as lunar rock cuttings
 [NASA-CASE-XNP-01412] c15 N70-42034
 Hole cutter --- drill bits and rotating shaft
 [NASA-CASE-MFS-22649-1] c37 N75-25186

DRILLS
 Rotary impact-type rock drill for recovering
 rock cuttings
 [NASA-CASE-XNP-07478] c14 N69-21923
 Auger-type soil penetrometer for burrowing into
 soil formations
 [NASA-CASE-XNP-05530] c14 N73-32321
 Adjustable chamfering tool
 [NASA-CASE-NPO-10857-1] c37 N77-22478

DRIVES
 Inverter drive circuit for semiconductor switch
 [NASA-CASE-LEW-10233] c10 N71-27126

DROPS (LIQUIDS)
 Development of droplet monitoring probe for use
 in analysis of droplet propagation in
 mixed-phase fluid stream
 [NASA-CASE-NPO-10985] c14 N73-20478

DRUGS
 Automated analysis of oxidative metabolites
 [NASA-CASE-ARC-10469-1] c25 N75-12086

DRY CELLS
 Energy source with tantalum capacitors in
 parallel and miniature silver oxide button
 cells for initiating pyrotechnic devices on
 spacecraft and rocket vehicles
 [NASA-CASE-LAR-10367-1] c03 N70-26817

DRYING
 Drying chamber for photographic sheet material
 [NASA-CASE-GSC-11074-1] c14 N73-28489

DRYING APPARATUS
 Gas purged dry box glove reducing permeation of
 air or moisture into dry box or isolator by
 diffusion through glove
 [NASA-CASE-XLE-02531] c05 N71-23080

DUCTS
 Quick disconnect duct coupling device for
 single-handed operation
 [NASA-CASE-MFS-20395] c15 N71-24903
 Externally supported internally stabilized
 flexible duct joint
 [NASA-CASE-MFS-19194-1] c37 N76-14460

DUST COLLECTORS
 Device for removing plastic dust cover from
 digital computer disk packs for inspection and
 cleaning
 [NASA-CASE-LAR-10590-1] c15 N70-26819

DYE LASERS
 Infrared tunable dye laser with nonlinear
 wavelength mixing crystal in optical cavity
 [NASA-CASE-ARC-10463-1] c09 N73-32111

- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655
- Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517
- DYES**
- Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XNF-02221] c18 N71-27170
- DYNAMIC CHARACTERISTICS**
- Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
- Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
- DYNAMIC CONTROL**
- Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-WFO-13619-1] c37 N75-22748
- DYNAMIC LOADS**
- Multilegged support system for wind tunnel test models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481
- Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
- Development and characteristics of device for indicating and recording magnitude of force applied in axial direction
[NASA-CASE-HSC-15626-1] c14 N72-25411
- DYNAMIC MODULUS OF ELASTICITY**
- Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
- DYNAMIC RESPONSE**
- Lunar and planetary gravity simulator to test vehicular response to landing
[NASA-CASE-XLA-00493] c11 N70-34786
- Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XIA-05541] c12 N71-26387
- Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MPS-11204] c14 N71-29134
- DYNAMIC STRUCTURAL ANALYSIS**
- Development of system for measuring damping characteristics of structure or system subjected to random forces or influences
[NASA-CASE-ARC-10154-1] c14 N72-22440
- DYNAMIC TESTS**
- Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XNF-01772] c11 N70-41677
- Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XNF-03248] c11 N71-10604
- DYNAMOMETERS**
- Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
- Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429
- *
- E**
- EAR**
- Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185
- EARTH (PLANET)**
- Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408
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- Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991
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- Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-MFS-20710] c11 N72-23215
- Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-HSC-12391] c30 N73-12884
- ECHOS**
- A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621
- ECONOMIC ANALYSIS**
- Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
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- Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
- High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c32 N74-20863
- EFFLUENTS**
- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c34 N77-24423
- EJECTION**
- Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XNF-04132] c15 N70-29502
- EJECTION SEATS**
- Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XMS-04625] c05 N71-20718
- EJECTORS**
- Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
- Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XMS-04625] c05 N71-20718
- Latching mechanism with pivoting catch and self-contained spring ejector
[NASA-CASE-XLA-03538] c15 N71-24897
- ELASTIC BODIES**
- Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
- Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-XAC-05632] c32 N71-23971
- Device for measuring tensile forces
[NASA-CASE-MPS-21728-1] c35 N74-27865
- ELASTIC DEFORMATION**
- Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
- Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-XAC-05632] c32 N71-23971
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- Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
- ELASTIC PROPERTIES**
- Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
- Resilient vehicle wheel for lunar surface travel
[NASA-CASE-MPS-20400] c31 N71-18611
- Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
- Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-WFO-10767-1] c06 N73-33076
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Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds
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[NASA-CASE-XAC-00086] c09 N70-33182

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[NASA-CASE-XGS-03532] c14 N71-17627

Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045

Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490

Electromechanical control actuator system using double differential screws
[NASA-CASE-ERC-10022] c15 N71-26635

Miniature electromechanical junction transducer operating on piezoelectric effect and utilizing epoxy for stress coupling component

[NASA-CASE-ERC-10087] c14 N71-27334

Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248

Electromechanical actuator for producing mechanical force and/or motion in response to electrical signals
[NASA-CASE-NFO-11738-1] c09 N73-30185

A rotary electric device
[NASA-CASE-GSC-12138-1] c33 N77-26344

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c33 N77-26387

ELECTROMETERS

Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021

ELECTROMOTIVE FORCES

Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579

ELECTRON BEAM WELDING

Portable electron beam welding chamber
[NASA-CASE-LEW-11531] c15 N71-14932

Development of device to prevent high voltage arcing in electron beam welding
[NASA-CASE-XMP-08522] c15 N71-19486

ELECTRON BEAMS

Using electron beam switching for brushless motor commutation
[NASA-CASE-XGS-01451] c09 N71-10677

Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539

Electron beam deflection devices for measuring electric fields
[NASA-CASE-XNP-10289] c14 N71-23692

Apparatus to determine electric field strength by measuring deflection of electron beam impinging on target
[NASA-CASE-XMP-06617] c09 N71-24843

Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-LAR-10728-1] c14 N73-12445

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c33 N74-10195

Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c33 N74-21850

Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250

ELECTRON BOMBARDMENT

Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thruster
[NASA-CASE-XIP-07087] c06 N69-39889

Device and method for particle bombardment of specimens in electron microscope and measurement of beam intensities
[NASA-CASE-XGS-01725] c14 N69-39982

Electric rocket engine with electron bombardment ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822

Electronic cathodes for use in electron bombardment ion thrusters
[NASA-CASE-XLE-04501] c09 N71-23190

Single grid accelerator system for electron bombardment type ion thruster
[NASA-CASE-XLE-10453-2] c28 N73-27699

ELECTRON DISTRIBUTION

Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156

ELECTRON EMISSION

Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898

ELECTRON FLUX DENSITY

Device and method for particle bombardment of specimens in electron microscope and measurement of beam intensities
[NASA-CASE-XGS-01725] c14 N69-39982

ELECTRON IRRADIATION

SUBJECT INDEX

ELECTRON IRRADIATION

- Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
- ELECTRON MICROSCOPES**
Device and method for particle bombardment of specimens in electron microscope and measurement of beam intensities
[NASA-CASE-IGS-01725] c14 N69-39982
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408
- ELECTRON PHOTON CASCADES**
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473
- ELECTRON PLASMA**
Apparatus for producing highly conductive, high temperature electron plasma with homogeneous temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
- ELECTRON SOURCES**
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[NASA-CASE-ARC-10448-3] c35 N77-14408
- ELECTRON TRANSFER**
Method for treating metal surfaces to prevent secondary electron transmission
[NASA-CASE-INP-09469] c24 N71-25555
- ELECTRON TRANSITIONS**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426
- ELECTRON TUBES**
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[NASA-CASE-INP-09227] c15 N69-24319
Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
- ELECTRON TUNNELING**
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NFO-13348-1] c33 N75-31332
- ELECTRONIC CONTROL**
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Electronic circuit system for controlling electric motor speed
[NASA-CASE-INP-01129] c09 N70-38712
Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NFO-10302] c10 N71-26142
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185
Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
[NASA-CASE-NPO-11016] c08 N72-31226
- ELECTRONIC EQUIPMENT**
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Development of pulse-activated polarographic hydrogen detector
[NASA-CASE-INP-06531] c14 N71-17575
Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-XGS-02812] c09 N71-19466
Development and characteristics of oscillating static inverter
[NASA-CASE-XGS-05289] c09 N71-19470
Development of electromagnetic wave transmission line circulator and application to parametric amplifier circuits
[NASA-CASE-INP-02140] c09 N71-23097
Development of optimum pre-detection diversity combining receiving system adapted for use with amplitude modulation, phase modulation, and frequency modulation systems
[NASA-CASE-XGS-00740] c07 N71-23098
- Electronic cathodes for use in electron bombardment ion thrusters
[NASA-CASE-XLE-04501] c09 N71-23190
Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-INP-05524] c33 N71-24876
Development and characteristics of solid state acoustic variable time delay line using direct current voltage and radio frequency pulses
[NASA-CASE-ERC-10032] c10 N71-25900
Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
Device for rapid adjustment and maintenance of temperature in electronic components
[NASA-CASE-INP-02792] c14 N71-28958
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Readily assembled universal environment housing for electronic equipment
[NASA-CASE-KSC-10031] c15 N72-22486
Lead attachment for high temperature operation of electronic devices
[NASA-CASE-ERC-10224] c09 N72-25261
Development of method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c15 N72-25457
Development and characteristics of data decoder to process convolution encoded information
[NASA-CASE-NFO-11371] c08 N73-12177
Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
Development and characteristics for automatically displaying digits in any desired order using optical techniques
[NASA-CASE-XMS-00348] c09 N73-14215
Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NFO-10764-1] c14 N73-14428
Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
Device for locating electrically nonlinear objects and determining distance to object by FM signal transmission
[NASA-CASE-KSC-10108] c14 N73-25461
Electronic strain level counter on in-flight aircraft
[NASA-CASE-LAR-10756-1] c32 N73-26910
Automatic vehicle location system
[NASA-CASE-NFO-11850-1] c32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c33 N77-17354
- ELECTRONIC EQUIPMENT TESTS**
Apparatus for automatically testing analog to digital converters for open and short circuits
[NASA-CASE-XLA-06713] c14 N71-28991
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c35 N75-12270
- ELECTRONIC FILTERS**
Self-tuning electronic filter for maintaining constant bandwidth and center frequency gain
[NASA-CASE-ARC-10264-1] c09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c33 N74-32712
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[NASA-CASE-NFS-23303-1] c32 N77-18307
- ELECTRONIC MODULES**
Thermal conductive, electrically insulated cleavable adhesive connection between electronic module and heat sink
[NASA-CASE-XMS-02087] c09 N70-41717

- Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056
- Development and characteristics of cooling system to maintain temperature of rack mounted electronic modules
[NASA-CASE-MSC-12389] c33 N71-29052
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c33 N77-30365
- ELECTRONIC PACKAGING**
- Electrical feedthrough connection for printed circuit boards
[NASA-CASE-XMP-01483] c14 N69-27431
- Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LEW-10364-1] c09 N71-13522
- Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
- Electrical connections for thin film hybrid microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
- Flexible, frangible electrochemical cell and package for operation in low temperature environment
[NASA-CASE-XGS-10010] c03 N72-15986
- Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
- Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c33 N74-12951
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c37 N74-32918
- ELECTRONIC RECORDING SYSTEMS**
- Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
- ELECTRONIC TRANSDUCERS**
- Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-XMP-02433] c14 N71-10616
- Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
- Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c33 N74-14941
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c35 N77-21392
- ELECTROPHORESIS**
- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c25 N74-26948
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c34 N74-27744
- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N77-12157
- ELECTROPHOTOMETERS**
- Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
- ELECTROPHYSIOLOGY**
- Dry electrode design with wire sandwiched between two flexible conductive discs for monitoring physiological responses
[NASA-CASE-FRC-10029] c09 N71-24618
- ELECTROPLATING**
- Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903
- Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MFS-13687] c09 N71-28691
- Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
- ELECTROSTATIC CHARGE**
- Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-IAC-05506-1] c24 N71-16095
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c33 N75-18477
- Internal combustion engine with electrostatic discharging fuels
[NASA-CASE-NPO-13798-1] c37 N77-25535
- ELECTROSTATIC ENGINES**
- Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
- Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
- Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
- Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
- ELECTROSTATIC GENERATORS**
- Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
- ELECTROSTATIC PRECIPITATORS**
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c37 N74-13199
- Zero gravity separator
[NASA-CASE-LAR-10344-1] c35 N76-33470
- ELECTROSTATIC PROBES**
- Low impedance apparatus for measuring electrostatic field intensity near space vehicles
[NASA-CASE-XLE-00820] c14 N71-16014
- ELECTROSTATIC PROPULSION**
- Nuclear electric generator for accelerating charged propellant particles in electrostatic propulsion system
[NASA-CASE-XLE-00818] c22 N70-34248
- High voltage insulators for direct current in acceleration system of electrostatic thruster
[NASA-CASE-XLE-01902] c28 N71-10574
- Electrostatic microthrust propulsion system with annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213
- ELECTROSTATIC SHIELDING**
- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N77-10148
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338
- ELECTROSTATICS**
- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c27 N77-22257
- ELECTROTHERMAL ENGINES**
- Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
- High resistance cross flow heat exchangers for electrothermal rocket engines
[NASA-CASE-XLE-01783] c28 N70-34175
- ELEVATION**
- Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
- Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-IKS-07814] c15 N71-27067

ELEVATORS (LIFTS)

Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453

ELEVONS

Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088

ELLIPSES

Ellipsograph for describing and cutting ellipses with minimal axial dimensions
[NASA-CASE-XLA-03102] c14 N71-21079

ELONGATION

Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449

ELUTION

Amino acid analysis
[NASA-CASE-NFO-12130-1] c25 N75-14844

EMERGENCIES

Silent alarm system for multiple room facility or school
[NASA-CASE-NPO-11307-1] c10 N73-30205

EMERGENCY BREATHING TECHNIQUES

Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-XMS-01115] c05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS

Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c54 N77-21844

EMISSION SPECTRA

Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871

EMITTANCE

High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875

EMITTERS

Inverted geometry transistor for use with monolithic integrated circuit
[NASA-CASE-ARC-10330-1] c09 N73-32112

EMULSIONS

Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595

ENAMELS

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160

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Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
Flexible, repairable, portable composition for encapsulating electric connectors
[NASA-CASE-XGS-05180] c18 N71-25881
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
Electrically coupled individually encapsulated solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
Encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c44 N77-15490

ENCLOSURES

Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XMF-09422] c07 N71-19436

ENDOSCOPES

Borescope with adjustable hinged telescoping optical system

[NASA-CASE-MFS-15162]

c14 N72-32452

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Sensor device with switches for measuring surface recession of charring and noncharring ablators

[NASA-CASE-XLA-01781]

c14 N69-39975

ENEMY PERSONNEL

Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160

ENERGY ABSORPTION

Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861

Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679

Air brake device for absorbing and measuring power from rotating shafts
[NASA-CASE-XLE-00720] c14 N70-40201

Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XMS-03722] c15 N71-21530

Nonreusable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMF-10040] c15 N71-22877

Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146

Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-XMF-01848] c15 N71-28959

Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NFO-10671] c15 N72-20443

High energy absorption docking system design for docking large spacecraft
[NASA-CASE-MFS-20863] c31 N73-26876

Metal shearing energy absorber
[NASA-CASE-BQN-10638-1] c15 N73-30460

ENERGY CONSERVATION

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007

ENERGY CONVERSION

Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XMF-00644] c03 N70-36803

Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234

Device for converting electromagnetic wave energy into electric power
[NASA-CASE-GSC-11394-1] c09 N73-32109

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c37 N77-12402

Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c44 N77-32581

Solar energy collection system
[NASA-CASE-NFO-13810-1] c44 N77-32582

ENERGY CONVERSION EFFICIENCY

Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898

Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134

Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798

ENERGY DISSIPATION

Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850

Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001

ENERGY DISTRIBUTION

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994

ENERGY POLICY

Control for nuclear thermionic power source --- power supply circuits, energy policy
[NASA-CASE-NPO-13114-2] c44 N76-15573
Selective coating for solar panels --- energy policy
[NASA-CASE-LEW-12159-1] c44 N76-15603
Solar energy power system
[NASA-CASE-NFS-21628-2] c44 N76-23675
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-NFS-23167-1] c44 N76-31667
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
A non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N77-19579
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-NFS-23267-1] c35 N77-20401
Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N77-20565
Low cost solar energy collection system
[NASA-CASE-NPO-13579-3] c44 N77-20566
A non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c44 N77-28583
Solar pond
[NASA-CASE-NPO-13581-2] c44 N77-28584
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580

ENERGY SOURCES

Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522

ENERGY STORAGE

Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11156-2] c33 N75-31331
An improved rotatable mass for a flywheel
[NASA-CASE-NFS-23051-1] c37 N76-13500
An artificial leg employing a mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c54 N76-26871
Mechanical capacitor
[NASA-CASE-GSC-12030-1] c44 N76-30652
Safety flywheel
[NASA-CASE-BQN-10888-1] c37 N77-22484

ENERGY TECHNOLOGY

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N77-20565
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
Solar energy collection system
[NASA-CASE-NPO-13810-1] c44 N77-32582

ENERGY TRANSFER

Solar energy absorber
[NASA-CASE-NFS-22743-1] c44 N76-22657
A thermal energy transformer
[NASA-CASE-NPO-14058-1] c44 N77-30616

ENGINE ANALYZERS

Indicated mean effective pressure instrument (INEP)
[NASA-CASE-LEW-12661-1] c35 N77-32461

ENGINE CONTROL

Direct current electromotive system for

regenerative braking of electric motor
[NASA-CASE-INP-01096] c10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930

ENGINE COOLANTS

Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-INP-00148] c28 N70-38710

ENGINE DESIGN

Design and development of gas turbine combustion unit with nozzle guide vanes for introducing diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-INP-02923] c28 N71-23081
Space vehicle system
[NASA-CASE-MSC-12561-1] c18 N76-17185
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
Fuel combustor
[NASA-CASE-LEW-12137-1] c20 N76-20215

ENGINE FAILURE

System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-INP-02592] c24 N71-20518

ENGINE INLETS

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c07 N77-18154

ENGINE MONITORING INSTRUMENTS

System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-INP-02592] c24 N71-20518
Indicated mean effective pressure instrument (INEP)
[NASA-CASE-LEW-12661-1] c35 N77-32461

ENGINE NOISE

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036

ENGINE TESTS

Electric propulsion engine test chamber
[NASA-CASE-XLE-00252] c11 N70-34844

ENGINEERING DRAWINGS

High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
Graphic illustration of lifting body design
[NASA-CASE-FBC-10063] c01 N71-12217
Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-INP-03498] c15 N71-15986

ENTHALPY

Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156

ENVIRONMENT SIMULATION

Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619

ENVIRONMENT SIMULATORS

Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964

ENVIRONMENTAL CONTROL

Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203

- Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control [NASA-CASE-XMF-03212] c15 N71-22721
- Development and characteristics of thermal sensitive panel for controlling ratio of solar absorptivity to surface emissivity for space vehicle temperature control [NASA-CASE-XIA-07728] c33 N71-22890
- Dual solid cryogenics for spacecraft refrigeration insuring low temperature cooling for extended periods [NASA-CASE-GSC-10188-1] c23 N71-24725
- Vibration control of flexible bodies in steady accelerating environment [NASA-CASE-LAR-10106-1] c15 N71-27169
- Test chamber for determining decomposition and autoignition of materials used in spacecraft under controlled environmental conditions [NASA-CASE-KSC-10198] c11 N71-28629
- Readily assembled universal environment housing for electronic equipment [NASA-CASE-KSC-10031] c15 N72-22486
- Environmentally controlled suit for working in sterile chamber [NASA-CASE-LAR-10076-1] c05 N73-20137
- Dual stage check valve for cryogenic supply systems used in space flight environmental control system [NASA-CASE-MSC-13587-1] c15 N73-30459
- Spacecraft with artificial gravity and earthlike atmosphere [NASA-CASE-LEW-11101-1] c31 N73-32750
- ENVIRONMENTAL ENGINEERING**
- Thermal control wall panel with application to spacecraft cabins [NASA-CASE-XLA-01243] c33 N71-22792
- ENVIRONMENTAL TESTS**
- Multisample test chamber for exposing materials to X rays, temperature change, and gaseous conditions and determination of material effects [NASA-CASE-XMS-02930] c11 N71-23042
- Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation [NASA-CASE-XAC-07043] c05 N71-23161
- Flammability test chamber for testing materials in certain predetermined environments [NASA-CASE-KSC-10126] c11 N71-24985
- Multiaxes vibration device for making vibration tests along orthogonal axes of test specimen [NASA-CASE-MFS-20242] c14 N73-19421
- ENVIRONMENTS**
- Hermetically sealed elbow actuator for use in severe environments [NASA-CASE-MFS-14710] c09 N72-22195
- ENZYME ACTIVITY**
- Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions [NASA-CASE-XGS-05533] c04 N69-27487
- Enzymatic luminescent bioassay method for determining bacterial levels in urine [NASA-CASE-GSC-11092-2] c04 N73-27052
- ENZYMES**
- Protein sterilization of firefly luciferase without denaturation [NASA-CASE-GSC-10225-1] c06 N73-27086
- EPICYCLOIDS**
- Sequencing device utilizing planetary gear set [NASA-CASE-MSC-19514-1] c37 N77-19459
- EPOXY COMPOUNDS**
- Synthesis of siloxane containing epoxy polymers with low dielectric properties [NASA-CASE-MFS-13994-1] c06 N71-11240
- Synthesis of siloxane containing epoxide and diamine polymers [NASA-CASE-MFS-13994-2] c06 N72-25148
- EPOXY RESINS**
- Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft [NASA-CASE-XGS-00886] c03 N71-11053
- Epoxy resin sealing device for electrochemical cells in high vacuum environments [NASA-CASE-XGS-02630] c03 N71-22974
- Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch [NASA-CASE-XLE-05641-1] c15 N71-26346
- Miniature electromechanical junction transducer operating on piezjunction effect and utilizing epoxy for stress coupling component [NASA-CASE-ERC-10087] c14 N71-27334
- Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds [NASA-CASE-NFO-10701] c06 N71-28620
- Method of repairing discontinuity in fiberglass structures [NASA-CASE-LAR-10416-1] c24 N74-30001
- Transparent fire resistant polymeric structures [NASA-CASE-ARC-10813-1] c27 N76-16230
- Composite sandwich lattice structure [NASA-CASE-LAR-11898-1] c24 N77-15103
- EQUIPMENT**
- Bi-metallic fluid displacement apparatus --- for stirring and heating stored gases and liquids [NASA-CASE-ARC-10441-1] c35 N74-15126
- EQUIPMENT SPECIFICATIONS**
- Differential pressure cell insensitive to changes in ambient temperature and extreme overload [NASA-CASE-XAC-00042] c14 N70-34816
- High-temperature, high-pressure spherical segment valve [NASA-CASE-XAC-00074] c15 N70-34817
- Remote-reading torquemeter for use where high horsepower are transmitted at high rotative speeds [NASA-CASE-XLE-00503] c14 N70-34818
- Magnetically centered liquid column float [NASA-CASE-XAC-00030] c14 N70-34820
- Electric propulsion engine test chamber [NASA-CASE-XLE-00252] c11 N70-34844
- Channel-type shell construction for rocket engines and related configurations [NASA-CASE-XLE-00144] c28 N70-34860
- Non-reusable kinetic energy absorber for application in soft landing of space vehicles [NASA-CASE-XLE-00810] c15 N70-34861
- Silt regulated gas journal bearing [NASA-CASE-XMP-00476] c15 N70-38620
- Specifications and drawings for semipassive optical communication system [NASA-CASE-XLA-01090] c07 N71-12389
- Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher [NASA-CASE-XMP-06589] c05 N71-23159
- Development of vortex fluid amplifier for throttling rocket exhaust [NASA-CASE-LEW-10374-1] c28 N73-13773
- Simplified technique and device for producing industrial grade synthetic diamonds [NASA-CASE-MFS-20698-2] c15 N73-19457
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature [NASA-CASE-LAR-10426-1] c09 N74-19528
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity [NASA-CASE-MFS-21394-1] c34 N74-27744
- Thermocouple tape --- developed from thermoelectrically different metals [NASA-CASE-LEW-11072-2] c35 N76-15434
- EQUIPOTENTIALS**
- Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints [NASA-CASE-LAR-10007-1] c05 N71-11195
- Instrument for measuring potentials on two dimensional electric field plot [NASA-CASE-XLA-08493] c10 N71-19421
- ERGONOMETICS**
- Development of restraint system for securing personnel to ergometer while exercising under weightless conditions [NASA-CASE-MFS-21046-1] c14 N73-27377
- Versatile ergometer with work load control [NASA-CASE-MFS-21109-1] c05 N73-27941
- Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices

- [NASA-CASE-MFS-21010-1] c05 N73-30078
Pneumatic foot pedal operated fluidic exercising device
- [NASA-CASE-MSC-11561-1] c05 N73-32014
Ergometer calibrator --- for any ergometer utilizing rotating shaft
- [NASA-CASE-MFS-21045-1] c35 N75-15932
- EROSION**
Thermal shock and erosion resistant tantalum carbide ceramic material
- [NASA-CASE-LAR-11902-1] c27 N76-23436
- ERROR ANALYSIS**
Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
- [NASA-CASE-NFO-13086-1] c15 N73-12495
Bit error rate measurement above and below bit rate tracking threshold
- [NASA-CASE-MSC-12743-1] c32 N77-19290
- ERROR CORRECTING DEVICES**
Error correction circuitry for binary signal channels
- [NASA-CASE-XNP-03263] c09 N71-18843
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
- [NASA-CASE-XNP-01306] c07 N71-20814
Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
- [NASA-CASE-XNP-02748] c08 N71-22749
Failure detection and control means for improved drift performance of a gimbaled platform system
- [NASA-CASE-MFS-23551-1] c04 N76-26175
Guide for a typewriter
- [NASA-CASE-MFS-15218-1] c37 N77-19457
- ERROR DETECTION CODES**
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
- [NASA-CASE-NFO-10567] c08 N71-24633
- ERROR SIGNALS**
Error correction circuitry for binary signal channels
- [NASA-CASE-XNP-03263] c09 N71-18843
Feedback controller for sampling error signals within single control formulation time interval
- [NASA-CASE-GSC-10554-1] c08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
- [NASA-CASE-MSC-12743-1] c32 N77-19290
- ERRORS**
Analog to digital converter using offset voltage to eliminate errors
- [NASA-CASE-MSC-13110-1] c08 N72-22163
- ESCAPE CAPSULES**
Aerial capsule emergency separation device using jettisonable towers
- [NASA-CASE-XLA-00115] c03 N70-33343
Emergency escape cabin system for launch towers
- [NASA-CASE-XRS-02342] c05 N71-11199
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
- [NASA-CASE-MSC-13281] c31 N72-18859
- ESCAPE SYSTEMS**
Design and specifications of emergency escape system for spacecraft structures
- [NASA-CASE-MSC-12086-1] c05 N71-12345
Automatic braking device for rapidly transferring humans or materials from elevated location
- [NASA-CASE-XRS-07814] c15 N71-27067
- ESTERS**
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
- [NASA-CASE-MFS-21040-1] c06 N73-30098
- ETCHING**
Reusable masking boot for chemical machining operations
- [NASA-CASE-XNP-02092] c15 N70-42033
Development of method for etching copper
- [NASA-CASE-XGS-06306] c17 N71-16044
Composition and process for improving definition of resin masks used in chemical etching
- [NASA-CASE-XGS-04993] c14 N71-17574
- Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dichromate for adhesive bonding
- [NASA-CASE-XNP-02303] c17 N71-23828
Selective plating of etched circuits without removing previous plating
- [NASA-CASE-XGS-03120] c15 N71-24047
Nickel plating onto etched aluminum castings
- [NASA-CASE-XNP-04148] c17 N71-24830
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
- [NASA-CASE-NFO-11758-1] c31 N74-23065
- ETHERS**
Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
- [NASA-CASE-XNP-02584] c06 N71-20905
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
- [NASA-CASE-NFO-10768] c06 N71-27254
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
- [NASA-CASE-NFO-10768-2] c06 N72-27144
- ETHYLENE OXIDE**
Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
- [NASA-CASE-XNP-01749] c27 N70-41897
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
- [NASA-CASE-XNP-09763] c14 N71-20461
- EUTECTIC ALLOYS**
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
- [NASA-CASE-GSC-11577-1] c37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
- [NASA-CASE-MFS-22926-1] c24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
- [NASA-CASE-LEW-12906-1] c26 N77-32279
- EVACUATING (VACUUM)**
Filling honeycomb matrix with deaerated paste filler
- [NASA-CASE-XMS-01108] c15 N69-24322
Sealing evacuation port and evacuating vacuum container such as space jackets
- [NASA-CASE-XNP-03290] c15 N71-23256
Gas leak detection in evacuated systems using ultraviolet radiation probe
- [NASA-CASE-ERC-10034] c15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
- [NASA-CASE-LAR-10782-2] c31 N75-13111
- EVAPORATION**
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
- [NASA-CASE-XLA-03105] c15 N69-27483
- EVAPORATIVE COOLING**
Tubular sublimatory evaporator heat sink
- [NASA-CASE-ARC-10912-1] c34 N77-19353
- EVAPORATORS**
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
- [NASA-CASE-XNP-06065] c15 N71-20395
Means of vapor deposition using electric current and evaporator filament
- [NASA-CASE-LAR-10541-1] c15 N72-32487
- EXAMINATION**
An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
- [NASA-CASE-MFS-23315-1] c76 N76-32029
- EXHAUST GASES**
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
- [NASA-CASE-XNP-01813] c28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
- [NASA-CASE-LEW-11569-1] c07 N74-15453
Abating exhaust noises in jet engines
- [NASA-CASE-ARC-10712-1] c07 N74-33218
Exhaust flow deflector --- for ducted gas flow
- [NASA-CASE-LAR-11570-1] c34 N76-18364

EXHAUST NOZZLES

High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284

Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374

Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711

Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996

Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202

EXOTHERMIC REACTIONS

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c34 N77-14372

EXPANDABLE STRUCTURES

Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539

Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981

Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579

Collapsible high gain antenna which can be automatically expanded to operating state
[NASA-CASE-RSC-10392] c07 N73-26117

Expandable space frames with high expansion to collapse ratio
[NASA-CASE-ERC-10365-1] c31 N73-32749

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c33 N74-22865

EXPANSION

Apparatus for measuring polymer membrane expansion in electrochemical cells
[NASA-CASE-XGS-03665] c14 N69-21363

EXPERIMENTAL DESIGN

Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33305

Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051

Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ABC-10043-1] c05 N71-11193

Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161

EXPLOSIONS

Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484

EXPLOSIVE DEVICES

Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490

Hermetically sealed explosive release mechanism for actuator device
[NASA-CASE-XGS-00824] c15 N71-16078

Development of non-magnetic indexing device for orienting magnetic flux sensing instrument in magnetic field without generation of detrimental magnetic fields
[NASA-CASE-XGS-02422] c15 N71-21529

Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959

Development and characteristics of squib actuated explosive disconnect for spacecraft release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958

EXPLOSIVE FORMING

Electric discharge apparatus for electrohydraulic explosive forming
[NASA-CASE-XMF-00375] c15 N70-34249

EXPLOSIVE WELDING

Method for eliminating noise and debris of

explosive welding techniques by using complete enclosure
[NASA-CASE-LAR-10941-2] c15 N73-32371

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057

Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326

EXPLOSIVES

Production of intermetallic compounds by effect of shock waves from explosions and compaction of powder
[NASA-CASE-MFS-20861-1] c18 N73-32437

Optically detonated explosive device
[NASA-CASE-NFO-11743-1] c28 N74-27425

Electroexplosive device
[NASA-CASE-NFO-13858-1] c28 N77-17258

EXPONENTIAL FUNCTIONS

Digital quasi-exponential function generator
[NASA-CASE-NFO-11130] c08 N72-20176

EXPOSURE

Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322

EXPULSION BLADDERS

Expulsion bladder equipped storage tank structure
[NASA-CASE-XNP-00612] c11 N70-38182

Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NFO-11433] c18 N71-31140

EXTENSIONS

Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XMF-07587] c15 N71-18701

Automatically lockable axially extensible strut --- for helicopters
[NASA-CASE-LAR-11900-1] c05 N77-18134

EXTENSOMETERS

Transducer frame for use with extensometer to continuously monitor specimen sample
[NASA-CASE-XLA-10322] c15 N72-17452

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c52 N74-27864

Laser extensometer
[NASA-CASE-MFS-19259-1] c36 N77-10516

Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449

EXTRACTION

Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062

EXTRAVEHICULAR ACTIVITY

Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203

Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336

Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XMF-05344] c31 N71-16345

Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653

Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728

Open loop life support subsystem using breathing bag as reservoir for EVA
[NASA-CASE-MSC-12411-1] c05 N72-20096

Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012

EXTREMELY LOW RADIO FREQUENCIES

VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614

EXTRUDING

Extrusion can for extruding ceramics under heat and pressure
[NASA-CASE-NPO-10812] c15 N73-13464

Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125

EYE (ANATOMY)

- Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XMP-03934] c09 N71-22985
- Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LFW-11669-1] c05 N73-27062
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031
- Corneal seal device
[NASA-CASE-LFW-12258-1] c52 N77-28716

EYE DISEASES

- Flow compensating pressure regulator --- for ophthalmic applications
[NASA-CASE-LFW-12718-1] c35 N77-20408

EYE EXAMINATIONS

- Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
- Visual examination apparatus
[NASA-CASE-EE-ARC-10329-2] c52 N76-30793

EYEPIECES

- Wide angle eyepiece with long eye-relief distance
[NASA-CASE-XMS-06056-1] c23 N71-24857

F

FABRICATION

- Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 N69-21541
- Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818
- Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056
- Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LFW-10364-1] c09 N71-13522
- Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
- Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098
- Method of fabricating equal length insulated wire
[NASA-CASE-FRC-10038] c15 N72-20444
- Development of thin film temperature sensor from TaO
[NASA-CASE-NFO-11775] c26 N72-28761
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
- Lightweight reflector assembly
[NASA-CASE-NFO-13707-1] c74 N77-28933

FABRICS

- Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098
- Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449

FABRY-PEROT INTERFEROMETERS

- Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491

FACSIMILE COMMUNICATION

- Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613

FACTORIAL DESIGN

- Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
- Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195

FAIL-SAFE SYSTEMS

- Fail-safe multiple transformer circuit configuration
[NASA-CASE-NFO-11078] c09 N72-25262
- Latch mechanism
[NASA-CASE-MSC-12549-1] c37 N74-27903

FAILURE MODES

- Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LFW-10856-1] c15 N72-22490
- Inverter ratio failure detector
[NASA-CASE-NFO-13160-1] c35 N74-18090

FAIRINGS

- System for deploying and ejecting releasable clamshell fairing sections from spinning sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853

FALLING SPHERES

- Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMP-05844] c14 N71-17587

FAR INFRARED RADIATION

- Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389

FAR ULTRAVIOLET RADIATION

- Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641

FASTENERS

- Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XNP-00456] c14 N70-34705
- Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N70-36493
- Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
- Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653
- Ultrasonic wrench for applying vibratory energy to mechanical fasteners
[NASA-CASE-MFS-20586] c15 N71-17686
- Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
- Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076
- Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531
- Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XPR-05302] c15 N71-23254
- Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
- Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975

FATIGUE (MATERIALS)

- Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c35 N76-28530

FATIGUE LIFE

- Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
- Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
- Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LFW-10856-1] c15 N72-22490
- Fatigue life of hybrid antifriction bearings at ultrahigh speeds

- [NASA-CASE-LEW-11152-1] c15 N73-32359
 A machine for use in monitoring fatigue life for a plurality of elastomeric specimens
 [NASA-CASE-NFO-13731-1] c39 N76-17427
- FATIGUE TESTING MACHINES**
 Cryostat for use with horizontal fatigue testing machines at low temperatures
 [NASA-CASE-XMF-10968] c14 N71-24234
 Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
 [NASA-CASE-XLA-01782] c14 N71-26136
 A machine for use in monitoring fatigue life for a plurality of elastomeric specimens
 [NASA-CASE-NFO-13731-1] c39 N76-17427
- FATIGUE TESTS**
 Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
 [NASA-CASE-XLA-02131] c32 N70-42003
- FATS**
 Oil and fat absorbing polymers
 [NASA-CASE-NFO-11609-2] c27 N77-31308
- FECEs**
 Fecal waste disposal container
 [NASA-CASE-XMS-06761] c05 N69-23192
- FEED SYSTEMS**
 Nonconductive tube as feed system for plasma thruster
 [NASA-CASE-XIE-02902] c25 N71-21694
 Method and apparatus for pressurizing propellant tanks used in propulsion motor feed system
 [NASA-CASE-XNP-00650] c27 N71-28929
 Pressurized tank for feeding liquid waste into processing equipment
 [NASA-CASE-LAR-10365-1] c05 N72-27102
 Pressurized inert gas feed for lighting system
 [NASA-CASE-XSC-10644] c09 N72-27227
 Dual frequency feed systems for Cassegrainian antennas
 [NASA-CASE-NPO-13091-1] c09 N73-12214
 Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
 [NASA-CASE-NFO-11377] c15 N73-27406
- FEEDBACK**
 RC networks with voltage amplifier, RC input circuit, and positive feedback
 [NASA-CASE-ARC-10020] c10 N72-17172
 Multistage feedback shift register with states decomposable into cycles of equal length
 [NASA-CASE-NPO-11082] c08 N72-22167
 Inverter oscillator with voltage feedback
 [NASA-CASE-NPO-10760] c09 N72-25254
 Wide power range microwave feedback controller
 [NASA-CASE-GSC-12146-1] c33 N77-21322
- FEEDBACK AMPLIFIERS**
 Development of system with electrical properties which vary with changes in temperature for use with feedback loop in operational amplifier circuit
 [NASA-CASE-MSC-13276-1] c14 N71-27058
 Phase locked demodulator with bandwidth switching amplifier circuit
 [NASA-CASE-XNP-01107] c10 N71-28859
 Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
 [NASA-CASE-MSC-13492-1] c10 N71-28860
- FEEDBACK CIRCUITS**
 Low power drain transistor feedback circuit
 [NASA-CASE-XGS-04999] c09 N69-24317
 Linear three-tap feedback shift register
 [NASA-CASE-NFO-10351] c08 N71-12503
 Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
 [NASA-CASE-GSC-10041-1] c10 N71-19418
 Feedback integrating circuit with grounded capacitor for signal processing
 [NASA-CASE-XAC-10607] c10 N71-23669
 Development of idler feedback system to reduce electronic noise problem in two parametric amplifiers
 [NASA-CASE-LAR-10253-1] c09 N72-25258
 Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
 [NASA-CASE-NPO-11406] c08 N73-12175
- Logarithmic circuit with wide dynamic range
 [NASA-CASE-GSC-12145-1] c33 N77-19319
 Digital automatic gain amplifier
 [NASA-CASE-KSC-11008-1] c33 N77-21321
- FEEDBACK CONTROL**
 Describing continuous analog to digital converter with parallel digital output and nonlinear feedback
 [NASA-CASE-XAC-04031] c08 N71-18594
 Pulsed magnetic core memory element with blocking oscillator feedback for interrogation without loss of digital information
 [NASA-CASE-XGS-03303] c08 N71-18595
 Binary to decimal decoder logic circuit design with feedback control and display device
 [NASA-CASE-XKS-06167] c08 N71-24890
 Feedback control for direct current motor to achieve constant speed under varying loads
 [NASA-CASE-MFS-14610] c09 N71-28886
 Feedback controller for sampling error signals within single control formulation time interval
 [NASA-CASE-GSC-10554-1] c08 N71-29033
 Closed loop servosystem for variable speed tape recorders onboard spacecraft
 [NASA-CASE-NPO-10700] c07 N71-33613
 Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
 [NASA-CASE-LAR-10682-1] c02 N73-26004
 Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
 [NASA-CASE-HQN-10792-1] c33 N74-11049
 System and method for tracking a signal source --- employing feedback control
 [NASA-CASE-HQN-10880-1] c32 N75-30385
 Diffused waveguiding capillary tube with distributed feedback for a gas laser
 [NASA-CASE-NPO-13544-1] c36 N76-18428
 Closed loop spray cooling apparatus --- for particle accelerator targets
 [NASA-CASE-LEW-11981-1] c37 N76-20486
 The dc-to-dc converters employing staggered-phase power switches with two-loop control
 [NASA-CASE-NPO-13512-1] c33 N77-10428
- FEEDBACK FREQUENCY MODULATION**
 Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
 [NASA-CASE-XLA-01127] c07 N70-41372
 Characteristics of data-aided carrier tracking loop used for tracking carrier in angle modulated communications system
 [NASA-CASE-NPO-11282] c10 N73-16205
 Linear phase demodulator including a phase locked loop with auxiliary feedback loop
 [NASA-CASE-GSC-12018-1] c33 N77-14334
- FEEDERS**
 Automatic real-time pair-feeding system for animals
 [NASA-CASE-ARC-10302-1] c51 N74-15778
- FELTS**
 Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
 [NASA-CASE-MSC-12619-2] c16 N77-31237
- FEMALES**
 Liquid cooled brassiere and method of diagnosing malignant tumors therewith
 [NASA-CASE-ABC-11007-1] c52 N77-14736
- FERRITES**
 Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
 [NASA-CASE-GSC-10097-1] c08 N71-27210
 Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
 [NASA-CASE-LAR-10994-1] c24 N75-13032
 Device for measuring the ferrite content in an austenitic stainless-steel weld
 [NASA-CASE-MFS-22907-1] c26 N76-18257
- FERRONAGNETISM**
 High temperature ferromagnetic cobalt-base alloy for electrical power generating equipment
 [NASA-CASE-XLE-03629] c17 N71-23248
- FIBER OPTICS**
 Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles

- and onboard equipment
[NASA-CASE-XMP-02433] c14 N71-10616
- Filter distributed feedback laser
[NASA-CASE-NFO-13531-1] c36 N76-24553
- Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c74 N77-15826
- FIBERS**
- Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-INP-00597] c18 N71-23088
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456
- Polymeric electrolytic hygrometer
[NASA-CASE-NFO-13948-1] c35 N77-28470
- FIELD EFFECT TRANSISTORS**
- Frequency to analog converters with unipolar field effect transistor for determining potential charge by pulse duration of input signal
[NASA-CASE-INP-07040] c08 N71-12500
- Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882
- Circuitry for high input impedance video processor with high noise immunity
[NASA-CASE-NFO-10199] c09 N72-17156
- Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NFO-11333] c08 N72-22162
- Single integrated circuit chip with field effect transistor
[NASA-CASE-GSC-10835-1] c09 N72-33205
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329
- Stored charge transistor
[NASA-CASE-NFO-11156-2] c33 N75-31331
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c33 N76-26394
- FIELD EMISSION**
- Electrode with multiple columnar conductors for limiting field emission current
[NASA-CASE-BEC-10015-2] c10 N72-27246
- FILAMENT WINDING**
- Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XMP-02107] c15 N71-10809
- Pabrication of filament wound propellant tank for cryogenic storage
[NASA-CASE-XLE-03803-2] c15 N71-17651
- Twisted wire or tube superconductor for filament windings
[NASA-CASE-LEW-11015] c26 N73-32571
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c24 N77-19171
- FILAMENTS**
- Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
- Controlled diffusion reaction process for masking substrate of twisted multifilament superconductive ribbon
[NASA-CASE-LEW-11726-1] c26 N73-26752
- FILLERS**
- Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
- FILM COOLING**
- Multislot film cooled pyrolytic graphite rocket nozzle
[NASA-CASE-INP-04389] c28 N71-20942
- FILMS**
- Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NFO-13443-1] c76 N76-20994
- FILTERS**
- Development of filter system for control of outgas contamination in vacuum conditions
- using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-MFS-14711] c15 N71-26185
- Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-INP-04262-2] c17 N71-26773
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c34 N74-30608
- FINS**
- Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421
- FIRE PREVENTION**
- Hydrogen fire blink detector for high altitude rocket or ground installation
[NASA-CASE-MFS-15063] c14 N72-25412
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c35 N74-21019
- FIREPROOFING**
- Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
- Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ABC-10196-1] c18 N73-13562
- Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ABC-10304-1] c18 N73-26572
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ABC-10180-1] c27 N74-12814
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
- FIRES**
- Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
- Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MFS-13130] c10 N72-17173
- FIRING (IGNITING)**
- Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
- FSSIONABLE MATERIALS**
- Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
- FITTINGS**
- Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789
- Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389
- FIXED WINGS**
- Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
- FIXTURES**
- Tool for use in lifting pin supported objects
[NASA-CASE-NFO-13157-1] c37 N74-32918
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
- FLAME PROBES**
- Flame detector operable in presence of protcn radiation
[NASA-CASE-MFS-21577-1] c19 N74-29410
- FLAME RETARDANTS**
- Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-2] c27 N76-24408
- Flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c27 N76-24409
- Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267
- FLAME SPRAYING**
- Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion

- [NASA-CASE-XIA-00302] c15 N71-16077
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
- [NASA-CASE-ARC-10C98-1] c06 N71-24739
Method of making pressure tight seal for super alloy
- [NASA-CASE-LAR-10170-1] c37 N74-11301
- FLAMES**
Anodizing method for providing metal surfaces with temperature reducing coatings against flames
- [NASA-CASE-XLE-00035] c33 N71-29151
Modulated hydrogen ion flame detector
- [NASA-CASE-ARC-10322-1] c35 N76-18403
- FLAMMABILITY**
Flammability test chamber for testing materials in certain predetermined environments
- [NASA-CASE-KSC-10126] c11 N71-24985
Development of apparatus for testing burning rate and flammability of materials
- [NASA-CASE-XMS-09690] c33 N72-25913
- FLANGES**
Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
- [NASA-CASE-XNP-00683] c09 N70-35425
Light baffle with oblate hemispheroid surface and shading flange
- [NASA-CASE-NPO-10337] c14 N71-15604
Flanged major modular assembly jig
- [NASA-CASE-MSC-19372-1] c39 N76-31562
- FLAPS (CONTROL SUBPACKS)**
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
- [NASA-CASE-XLA-00087] c02 N70-33332
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
- [NASA-CASE-XMF-00641] c31 N70-36410
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
- [NASA-CASE-LAR-10249-1] c02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
- [NASA-CASE-ARC-10754-1] c07 N75-24736
- FLARED BODIES**
Development and characteristics of strainer for flared tube fitting
- [NASA-CASE-XLA-05056] c15 N72-11389
- FLAT CONDUCTORS**
Method of making welded electric connector for use with flat conductor cables
- [NASA-CASE-XMF-03498] c15 N71-15986
Shielded flat conductor cable fabricated by electroless and electrolytic plating
- [NASA-CASE-MFS-13687] c09 N71-28691
Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
- [NASA-CASE-MFS-13687-2] c09 N72-22198
Separable flat cable connector with isolated electrical contacts
- [NASA-CASE-MFS-20757] c09 N72-28225
- FLAT PLATES**
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
- [NASA-CASE-XLE-02624] c12 N69-39988
Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
- [NASA-CASE-MFS-20698] c15 N72-20446
Heat transfer device
- [NASA-CASE-MFS-22938-1] c34 N76-18374
Flat-plate heat pipe
- [NASA-CASE-GSC-11998-1] c34 N77-32413
- FLEXIBILITY**
Weatherproof helix antenna
- [NASA-CASE-XKS-08485] c07 N71-19493
Flexible bellows joint shielding sleeve for propellant transfer pipelines
- [NASA-CASE-XNP-01855] c15 N71-28937
Flexible joint for pressurizable garment
- [NASA-CASE-MSC-11072] c54 N74-32546
Adjustable securing base
- [NASA-CASE-MSC-19666-1] c37 N76-31529
- Nozzle extraction process and handmeter for measuring handle
- [NASA-CASE-LAR-12147-1] c27 N77-10198
- FLEXIBLE BODIES**
Flexible backup bar for welding awkwardly shaped structures
- [NASA-CASE-XMF-00722] c15 N70-40204
Characteristics of hermetically sealed electric switch with flexible operating capability
- [NASA-CASE-XNP-09808] c09 N71-12518
Flexible composite membrane structure impervious to extremely reactive chemicals in rocket propellants
- [NASA-CASE-XNP-08837] c18 N71-16210
Development and characteristics of self supporting space vehicle
- [NASA-CASE-XLA-00117] c31 N71-17680
Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
- [NASA-CASE-MSC-12243-1] c05 N71-24728
Vibration control of flexible bodies in steady accelerating environment
- [NASA-CASE-LAR-10106-1] c15 N71-27169
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
- [NASA-CASE-XNP-08881] c17 N71-28747
Development of device for simulating cyclic thermal loading of flexible materials by application of mechanical stresses and deformations
- [NASA-CASE-LAR-10270-1] c32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
- [NASA-CASE-LAR-10753-1] c08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
- [NASA-CASE-MFS-19193-1] c37 N75-19686
- FLEXIBLE WINGS**
Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
- [NASA-CASE-XIA-06095] c01 N69-39981
Deployment system for flexible wing with rigid superstructure
- [NASA-CASE-XLA-01220] c02 N70-41863
Development and characteristics of control system for flexible wings
- [NASA-CASE-XLA-06958] c02 N71-11038
- FLEXING**
Two degree inverted flexure from single block of material
- [NASA-CASE-ARC-10345-1] c15 N73-12488
- FLIGHT**
Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
- [NASA-CASE-XPR-02007] c12 N71-24692
- FLIGHT ALTITUDE**
Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
- [NASA-CASE-ERC-10412-1] c09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
- [NASA-CASE-FRC-10049-1] c04 N74-13420
- FLIGHT CONTROL**
Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
- [NASA-CASE-XLA-00487] c14 N70-40157
Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
- [NASA-CASE-XPR-04104] c03 N70-42073
Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
- [NASA-CASE-XAC-00048] c02 N71-29128
Development of flight simulator system to show position of joystick displacement
- [NASA-CASE-NPO-11497] c08 N73-25206
Solid state controller three axes controller
- [NASA-CASE-MSC-12394-1] c08 N74-10942
G-load measuring and indicator apparatus --- for aircraft

[NASA-CASE-ARC-10806] c06 N74-27872
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
Deploy/release system --- model aircraft flight
control
[NASA-CASE-LAR-11575-1] c02 N76-16014

FLIGHT CREWS
Survival couch for aircraft or spacecraft crews
[NASA-CASE-XLA-00118] c05 N70-33285

FLIGHT INSTRUMENTS
Crosswind landing gear position indicator
[NASA-CASE-LAR-11941-1] c06 N77-20098

FLIGHT RECORDERS
Event recorder with constant speed motor which
rotates recording disk
[NASA-CASE-XLA-01832] c14 N71-21006

FLIGHT SAFETY
Aerial capsule emergency separation device using
jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
Development and characteristics of electronic
signalling system and data processing
equipment for warning systems to avoid midair
collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641

FLIGHT SIMULATION
Lunar landing flight research vehicle
[NASA-CASE-XFR-00929] c31 N70-34966
Television simulation for aircraft and space
flight
[NASA-CASE-XFR-03107] c09 N71-19449
Electrical circuit selection device for
simulating stage separation of flight vehicle
[NASA-CASE-XKS-04631] c10 N71-23663

FLIGHT SIMULATORS
Centrifuge mounted motion simulator with
elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Table structure and rotating magnet system
simulating gravitational forces on spacecraft
and displaying trajectories between Earth,
Venus, and Mercury
[NASA-CASE-XMP-00708] c14 N70-35394
Wind tunnel test section for simulating high
Reynolds number over transonic speed range
[NASA-CASE-MFS-20509] c11 N72-17183
Development of flight simulator system to show
position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206
Apparatus for applying simulator g-forces to an
arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597
Full color hybrid display for aircraft simulators
[NASA-CASE-ARC-10903-1] c09 N76-10148
Vehicle simulator binocular multiplanar visual
display system
[NASA-CASE-ARC-10808-1] c09 N76-24280
A seat cushion to provide realistic acceleration
cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787

FLIGHT TESTS
Device for measuring drag forces in flight tests
[NASA-CASE-XLA-00113] c14 N70-33386

FLIGHT VEHICLES
Construction of leading edges of surfaces for
aerial vehicles performing from subsonic to
above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497
Electro-optical attitude sensing device for
landing approach of flight vehicle
[NASA-CASE-XMS-01994-1] c14 N72-17326
Design and development of active control system
for air cushion vehicle to reduce or eliminate
effects of excessive vertical vibratory
acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023

FLIP-FLOPS
Bistable multivibrator circuits operating at
high speed and low power dissipation
[NASA-CASE-XGS-00623] c10 N71-15910
Stepping motor control apparatus exciting
windings in proper time sequence to cause
motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Interrogator and current driver circuit for
combination with transistor flip-flop circuit
[NASA-CASE-XCS-03058] c10 N71-19547

FLOATING
Floating baffle for tank drain
[NASA-CASE-RSC-10639] c15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c54 N74-14845

FLOATS
Magnetically centered liquid column float
[NASA-CASE-XAC-00030] c14 N70-34820

FLOTATION
Development and characteristics of rescue litter
with inflatable flotation device for water
rescue application
[NASA-CASE-XMS-04170] c05 N71-22748

FLOW DIRECTION INDICATORS
Electric circuit for reversing direction of
current flow
[NASA-CASE-INP-00952] c10 N71-23271
Flow angle sensor and remote readout system for
use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864

FLOW DISTRIBUTION
Multiple orifice fluid flow control valve to
provide different flow patterns
[NASA-CASE-ERC-10208] c15 N70-10867
Photographing surface flow patterns on wind
tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366
Color photointerpretation of interference colors
reflected from thin film oil-coated components
in moving gases for gas flow visualization
[NASA-CASE-INP-01779] c12 N71-20815
Dual wavelength scanning Doppler velocimeter ---
without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783
Controlled separation combustor --- airflow
distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190

FLOW MEASUREMENT
Collapsible flow test device for obstructed
passages
[NASA-CASE-XMS-04917] c14 N69-24257
Simulated fuel assembly-type flow measurement
apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669
Mass flow meter containing beta source for
measuring nonpolar liquid flow
[NASA-CASE-MFS-20485] c14 N72-11365
Instrument for measuring magnitude and direction
of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
Method for making a hot wire anemometer and
product thereof
[NASA-CASE-ARC-10900-1] c35 N77-24454

FLOW REGULATORS
Antibacklash circuit for hydraulic drive system
[NASA-CASE-XNP-01020] c03 N71-12260
Tubular flow restrictor for gas flow control in
pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
Fluid flow control valve for regulating fluids
in molecular quantities
[NASA-CASE-XLE-00703] c15 N71-15967
Control of gas flow from pressurized vessel by
thermal expansion of metal plug
[NASA-CASE-NPO-10298] c12 N71-17661
Semitoroidal diaphragm cavitating flow control
valve
[NASA-CASE-XNP-09704] c12 N71-18615
Describing device for changing flow rate of
fluid in duct in response to change in
temperature
[NASA-CASE-MFS-14259] c15 N71-19213
Pneumatic servoamplifier for controlling flow
regulation
[NASA-CASE-MSC-12121-1] c15 N71-27147
Gas flow control device, including housing and
input port
[NASA-CASE-NPO-11479] c15 N73-13462
Flow compensating pressure regulator --- for
ophthalmic applications
[NASA-CASE-LEW-12718-1] c35 N77-20408
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c37 N77-28487

FLOW STABILITY
Detonation reaction engine comprising outer
housing enclosing pair of inner walls for
continuous flow

- [NASA-CASE-XMF-06926] c28 N71-22983
Apparatus for establishing flow of a fluid mass
having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
- FLOW VELOCITY**
- Continuous variation of propellant flow and
thrust by application of liquid foam flow
theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367
Measuring density of single and two-phase
cryogenic fluids in rocket fuel tanks
[NASA-CASE-XLE-00688] c14 N70-41330
Device for adding water to high velocity exhaust
jets to reduce velocity, noise, and temperature
[NASA-CASE-XMF-01813] c28 N70-41582
Positive displacement flowmeter for measuring
extremely low flows of fluid with self
calibrating features
[NASA-CASE-XMF-02822] c14 N70-41994
Zeta potential flowmeter for measuring very slow
to very high flows
[NASA-CASE-XMF-06509] c14 N71-23226
Device for simultaneously determining density,
velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
Doppler shifted laser beam as fluid velocity
sensor
[NASA-CASE-XAC-10770-1] c16 N71-24828
Flowmeters for sensing low fluid flow rate and
pressure for application to respiration rate
studies
[NASA-CASE-FRC-10022] c12 N71-26546
Force balanced throttle valve for fuel control
in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
Flow rate switch for detecting variations in
fluid flow velocity through conduits of
pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
Instrument for measuring magnitude and direction
of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
Apparatus for establishing flow of a fluid mass
having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c09 N75-12969
Combined dual scatter, local oscillator laser
Doppler velocimeter
[NASA-CASE-ARC-10642-1] c36 N76-14447
System for measuring three fluctuating velocity
components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345
- FLOW VISUALIZATION**
- Method and apparatus for measuring shock layer
radiation distribution about high velocity
objects
[NASA-CASE-XAC-02970] c14 N69-39896
Color photointerpretation of interference colors
reflected from thin film oil-coated components
in moving gases for gas flow visualization
[NASA-CASE-XMF-01779] c12 N71-20815
- FLOWMETERS**
- Collapsible flow test device for obstructed
passages
[NASA-CASE-XMS-04917] c14 N69-24257
Simulated fuel assembly-type flow measurement
apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669
Positive displacement flowmeter for measuring
extremely low flows of fluid with self
calibrating features
[NASA-CASE-XMF-02822] c14 N70-41994
Heated element sensor for fluid flow detection
in thermal conductive conduit with adaptive
means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569
Describing laser Doppler velocimeter for
measuring mean velocity and turbulence of
fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
Zeta potential flowmeter for measuring very slow
to very high flows
[NASA-CASE-XNP-06509] c14 N71-23226
Flow meter for measuring stagnation pressure in
boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
Doppler shifted laser beam as fluid velocity
sensor
- [NASA-CASE-XAC-10770-1] c16 N71-24828
Flowmeters for sensing low fluid flow rate and
pressure for application to respiration rate
studies
[NASA-CASE-FRC-10022] c12 N71-26546
Mass flow meter containing beta source for
measuring nonpolar liquid flow
[NASA-CASE-MFS-20485] c14 N72-11365
Respiratory analysis system to determine gas
flow rate and frequency of respiration and
expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015
Low power electromagnetic flowmeter system
producing zero output signal for zero flow
[NASA-CASE-ARC-10362-1] c14 N73-32326
Electromagnetic flow rate meter --- for liquid
metals
[NASA-CASE-LEW-10981-1] c35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c35 N75-15931
Flow separation detector
[NASA-CASE-ARC-11046-1] c35 N76-28535
System for measuring three fluctuating velocity
components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345
- FLUID AMPLIFIERS**
- Fluid jet amplifier with fluid from jet nozzle
deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Multiple vortex amplifier system as fluid valve
[NASA-CASE-XMF-04709] c15 N71-15609
Shear modulated fluid amplifier of high pressure
hydraulic vortex amplifier type
[NASA-CASE-MFS-10412] c12 N71-17578
Development of vortex fluid amplifier for
throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c33 N74-11050
- FLUID FILMS**
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c37 N76-22541
- FLUID FILTERS**
- Absorbent apparatus for separating gas from
liquid-gas stream used in environmental
control under zero gravity conditions
[NASA-CASE-XMS-01492] c05 N70-41297
Compact high pressure filter for rocket fuel lines
[NASA-CASE-XNP-00732] c28 N70-41447
Development of liquid separating system using
capillary device connected to flexible bladder
storage chamber
[NASA-CASE-XMS-13052] c14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
Filter regeneration systems --- a system for
regenerating a system filter in a fluid flow
line
[NASA-CASE-MSC-14273-1] c34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c37 N76-14463
- FLUID FLOW**
- Fluid jet amplifier with fluid from jet nozzle
deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Pneumatic system for cyclic control of fluid
flow in pneumatic device
[NASA-CASE-XMS-04843] c03 N69-21469
Multiple orifice fluid flow control valve to
provide different flow patterns
[NASA-CASE-FRC-10208] c15 N70-10867
Conical valve plug for use with reactive
cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Pressure regulating system with high pressure
fluid source, adapted to maintain constant
downstream pressure
[NASA-CASE-XNP-00450] c15 N70-38603
Antiflutter check valve for use with high
pressure fluid flow
[NASA-CASE-XNP-01152] c15 N70-41811
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
Multiple vortex amplifier system as fluid valve
[NASA-CASE-XMF-04709] c15 N71-15609

- Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-HSC-12084-1] c12 N71-17569
- Throttle valve for regulating fluid flow volume
[NASA-CASE-XNP-09698] c15 N71-18580
- Photometric flow meter with comparator reference means
[NASA-CASE-XGS-01331] c14 N71-22996
- Combination pressure transducer-calibrator assembly for measuring fluid
[NASA-CASE-XNP-01660] c14 N71-23036
- Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
- Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies
[NASA-CASE-FBC-10022] c12 N71-26546
- Control valve for switching main stream of fluid from one stable position to another by means of electrohydrodynamic forces
[NASA-CASE-NPO-10416] c12 N71-27332
- Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741
- Mass flow meter containing beta source for measuring nonpolar liquid flow
[NASA-CASE-NFS-20485] c14 N72-11365
- Flow rate switch for detecting variations in fluid flow velocity through conduits of pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
- Torsional disconnect device for releasably coupling distal ends of fluid conduits
[NASA-CASE-NPO-10704] c15 N72-20445
- Capacitive tank gaging device for monitoring one constituent of two phase fluid by sensing dielectric constant
[NASA-CASE-NFS-21629] c14 N72-22442
- Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
- Design and development of device to prevent geysering during convective circulation of cryogenic fluids
[NASA-CASE-HSC-10615] c15 N73-12486
- Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c37 N74-21065
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-NFS-21424-1] c34 N74-27730
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-NFS-19193-1] c37 N75-19686
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-HSC-14273-1] c34 N75-33342
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ABC-10642-1] c36 N76-14447
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-NFS-19194-1] c37 N76-14460
- Fluid valve assembly
[NASA-CASE-HSC-12731-1] c37 N76-26511
- Positive isolation disconnect
[NASA-CASE-HSC-16043-1] c37 N77-15397
- Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c34 N77-24423
- Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ABC-10970-1] c36 N77-25501
- Accumulator
[NASA-CASE-NFS-19287-1] c34 N77-30399
- FLUID INJECTION**
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
- Method for igniting solid propellant rocket motors by injecting hypergolic fluids
[NASA-CASE-XLE-01988] c27 N71-15634
- Constructing fluid spike nozzle to eliminate heat transfer and high temperature problems inherent in physical spikes
[NASA-CASE-XGS-01143] c31 N71-15647
- Method and apparatus for producing fine particles in cryogenic liquid bath for gelled rocket propellants
[NASA-CASE-NPO-10250] c23 N71-16214
- Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
- Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-NFS-20831] c28 N71-29153
- Programmable physiological infusion
[NASA-CASE-ABC-10447-1] c52 N74-22771
- FLUID JETS**
Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856
- FLUID LOGIC**
Logic AND gate for fluid circuits
[NASA-CASE-XLA-07391] c12 N71-17579
- FLUID MECHANICS**
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
- Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NPO-11387] c14 N73-14429
- FLUID POWER**
Fluid power transmission and gas bearing system
[NASA-CASE-XMS-01445] c12 N71-16031
- Low friction gas bearing system for fluid power transmission to bearing-supported payload
[NASA-CASE-FBC-10097] c15 N71-28465
- FLUID ROTOR GYROSCOPES**
Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-XNP-05429] c26 N71-21824
- FLUID SWITCHING ELEMENTS**
Two phase fluid pressurization system for propellant tank
[NASA-CASE-HSC-12390] c27 N71-29155
- FLUIDIC CIRCUITS**
Using molds for fabricating individual fluid circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
- FLUIDICS**
Fluidic-thermochromic display device
[NASA-CASE-FBC-10031] c12 N71-18603
- Plasma-fluidic hybrid display system combining high brightness and memory characteristics
[NASA-CASE-FBC-10100] c09 N71-33519
- Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ABC-10106-1] c28 N72-22769
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c33 N74-11050
- FLUIDS**
Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
- Detection of bacteria in biological fluids and foods
[NASA-CASE-GSC-11533-1] c14 N73-13435
- Fluid polydimethylsiloxane resin with low outgassing properties in cured state
[NASA-CASE-GSC-11358-1] c06 N73-26100
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ABC-10896-1] c34 N75-32389
- Automatic fluid dispenser
[NASA-CASE-ABC-10820-1] c54 N75-32766
- Fluid mass sensor for a zero gravity environment
[NASA-CASE-HSC-14653-1] c35 N77-19385
- FLUORESCENCE**
Spectrophotofluorometer with 3-dimensional

- display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
- Sealed fluorescent tube light unit capable of connection with other units to form string of work lights
[NASA-CASE-XKS-05932] c09 N71-26787
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
- FLUORIDES**
- Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
- Development of fluoride coating to prevent oxidation of beryllium surfaces at elevated temperatures
[NASA-CASE-LEW-10327] c17 N71-33408
- Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-1C765] c06 N72-20121
- FLUORINATION**
- Fluorinated polyurethanes produced by reacting hydroxy terminated perfluoro polyether with diisocyanate
[NASA-CASE-NPO-10767-2] c06 N72-27151
- Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MPS-21040-1] c06 N73-30098
- FLUORINE**
- Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain
[NASA-CASE-NPO-10862] c06 N72-22107
- FLUORO COMPOUNDS**
- Synthesis of polyfluorobutadiene by polymerization of perfluorobutadiene with diisopropyl peroxydicarbonate
[NASA-CASE-NFO-1C863] c06 N70-11251
- Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NPO-10447] c06 N70-11252
- Preparation of fluorohydroxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluoroalkylene diol
[NASA-CASE-MFS-10507] c06 N73-30101
- Preparation of fluorinated polyethers from 2-hydro-perhaloisopropyl alcohols
[NASA-CASE-MFS-11492] c06 N73-30102
- Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-1C767-1] c06 N73-33076
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NFO-12061-1] c27 N76-16228
- FLUOROCARBONS**
- Electrically conductive fluorocarbon polymers
[NASA-CASE-XLE-06774-2] c06 N72-25150
- FLUTTER**
- Antiflutter check valve for use with high pressure fluid flow
[NASA-CASE-XNP-01152] c15 N70-41811
- Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
- FLUX (RATE)**
- Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808
- Fluxgate magnetometer for measuring magnetic field along two axes using one sensor
[NASA-CASE-GSC-10441-1] c14 N71-27325
- FLUX DENSITY**
- Particle beam power density detection and measurement apparatus
[NASA-CASE-XLE-00243] c14 N70-38602
- FLUXES**
- Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
[NASA-CASE-XNP-03459-2] c18 N71-15688
- Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078
- FLYWHEELS**
- An improved rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c37 N76-13500
- Safety flywheel
[NASA-CASE-HQN-10888-1] c37 N77-22484
- FOAMS**
- Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
- Continuous variation of propellant flow and thrust by application of liquid foam flow theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367
- Development of foam insulation for filament wound cryogenic storage tank
[NASA-CASE-XLE-03803] c15 N71-23816
- Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials
[NASA-CASE-NFO-10596] c06 N71-25929
- Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors
[NASA-CASE-LAR-10373-1] c18 N71-26155
- Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779
- Foam insulation thickness measuring and injection device for spacecraft applications
[NASA-CASE-MFS-20261] c14 N71-27005
- Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties
[NASA-CASE-XNP-09902] c15 N72-11387
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c27 N74-27037
- Ceramic fiber insulating material and methods of producing same --- product development of foams for thermal insulation
[NASA-CASE-HSC-14795-1] c27 N76-15314
- FOCUSING**
- X ray collimating structure for focusing radiation directly onto detector
[NASA-CASE-XHQ-04106] c14 N70-40240
- Apertured electrode focusing system for ion sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
- Development and characteristics of Petzval type objective including field shaping lens for focusing light of specified wavelength band on curved photoreceptor
[NASA-CASE-GSC-10700] c23 N71-30027
- Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c33 N74-10195
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c35 N75-19616
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c33 N76-23482
- FOG**
- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-HSC-13530-2] c23 N75-14834
- FOILS (MATERIALS)**
- Foil seal between parts moving relative to each other
[NASA-CASE-XLE-05130] c15 N69-21362
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c24 N75-33181
- FOLDING**
- Characteristics of device for folding thin flexible sheets into compact configuration

- [NASA-CASE-XLA-00137] c15 N70-33180
- FOLDING STRUCTURES**
- Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere [NASA-CASE-IGS-00260] c31 N70-37924
- Collapsible, space erectable loop antenna system for space vehicle [NASA-CASE-XMF-00437] c07 N70-40202
- Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft [NASA-CASE-IGS-00938] c32 N70-41367
- Foldable conduit capable of springing back as self erecting structural member [NASA-CASE-XLE-00620] c32 N70-41579
- Foldable, double cone and parabolic reflector system for solar ray concentration [NASA-CASE-XLA-04622] c03 N70-41580
- Method for deployment of flexible wing glider from space vehicle with minimum impact and loading [NASA-CASE-XMS-00907] c02 N70-41630
- Development and characteristics of variable sweep wing control system for supersonic aircraft [NASA-CASE-XIA-03659] c02 N71-11041
- Hydraulic actuator design for space deployment of heat radiators [NASA-CASE-MS-C-11817-1] c15 N71-26611
- Apparatus and method of assembling building blocks by folding pre-cut flat sheets of material during on-site construction [NASA-CASE-MS-C-12233-1] c15 N72-25454
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Describing crystal oscillator instrument for detecting condensable gas contaminants in vacuum apparatus
[NASA-CASE-NPO-10144] c14 N71-17701

Design and characteristics of time of flight mass spectrometer to measure or analyze gases at low pressures and time of flight of single gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041

Microwave double resonance spectroscopy absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137

Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863

Development and characteristics of injection system for use with gas chromatograph
[NASA-CASE-ARC-10344-1] c14 N72-21433

Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141

Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c35 N74-26949

Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c35 N74-34857

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502

Gas compression analysis --- for oxygen supply equipment
[NASA-CASE-HSC-14757-1] c37 N76-13496

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656

Mulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c25 N76-22323

Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-HSC-14428-1] c23 N77-17161

A method for aerosol analysis by thermoluminescence
[NASA-CASE-LAR-12046-1] c45 N77-17609

Fluid sampling device
[NASA-CASE-GSC-12143-1] c35 N77-32456

GAS BAGS

Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085

GAS BEARINGS

Externally pressurized air bearing for gyros operating in high temperature, low gravity environments
[NASA-CASE-XMF-00515] c15 N70-34664

Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620

Air bearings for spacecraft gyros
[NASA-CASE-XMF-00339] c15 N70-39896

Air bearings for near frictionless transfer of loads from one body to another
[NASA-CASE-XMF-01887] c15 N71-10617

Fluid power transmission and gas bearing system
[NASA-CASE-HMS-01445] c12 N71-16031

Bismuth and lead surface coatings for gas bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739

Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XMF-07808] c15 N71-23812

Low friction gas bearing system for fluid power transmission to bearing-supported payload
[NASA-CASE-ERC-10097] c15 N71-28465

Gas bearing for model support with capacity for measuring angular displacement of model in bearing
[NASA-CASE-XLA-09346] c15 N71-28740

Journal air bearing with cylindrical cup designed to ride on shaft
[NASA-CASE-HFS-20423] c15 N72-11388

Air bearing for use in exterior environment for moving heavy loads
[NASA-CASE-WLP-10002] c15 N72-17451

Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459

Thrust bearing
[NASA-CASE-LEW-11949-1] c37 N76-29588

GAS CHROMATOGRAPHY

Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936

Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991

Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NFO-10234] c06 N72-17094

Development and characteristics of injection system for use with gas chromatograph
[NASA-CASE-ARC-10344-1] c14 N72-21433

Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NFO-11322] c06 N72-25146

Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428

Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444

Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334

GAS COOLED REACTORS

Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LEW-10250-1] c22 N71-28759

GAS COOLING

Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NFO-10309] c15 N69-23190

Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568

GAS DENSITY

Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681

Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074

Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994

Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLB-04599] c22 N72-20597

Electrodeposition method for producing crystalline material from dense gaseous medium
[NASA-CASE-NPO-10440] c15 N72-21466

Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438

Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958

GAS DETECTORS

Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733

Development of device for detecting hydrogen in ambient environments
[NASA-CASE-HFS-11537] c14 N71-20442

Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896

- Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
[NASA-CASE-HSC-13332-1] c14 N72-21408
- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
- Carbon monoxide monitor --- using real time operation
[NASA-CASE-HFS-22060-1] c35 N75-29380
- Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393
- GAS DISCHARGE TUBES**
- Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
- Double discharge metal vapor laser with metal halide as a lasing
[NASA-CASE-NPO-13448-2] c36 N77-24469
- GAS DISCHARGES**
- Radio frequency noise generator having microwave slow-wave structure in gas discharge plasma
[NASA-CASE-XER-11019] c09 N71-23598
- GAS EVOLUTION**
- Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-HFS-14711] c15 N71-26185
- GAS EXPANSION**
- Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
- Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
- Gas-operated actuator with cyclic motion of expansion chamber
[NASA-CASE-NPO-11340] c15 N72-33477
- GAS FLOW**
- Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
- Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-HFS-12806] c14 N71-17588
- Burst diaphragm flow initiator for installation in short duration wind tunnels
[NASA-CASE-HFS-12915] c11 N71-17600
- Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XNF-01779] c12 N71-20815
- Transducer for monitoring oxygen flow in respirator
[NASA-CASE-FRC-10012] c14 N72-17329
- Design, development, and operation of shock tube with bypass piston tunnel
[NASA-CASE-NPO-12109] c11 N72-22245
- Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
- Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457
- Pressurized inert gas feed for lighting system
[NASA-CASE-RSC-10644] c09 N72-27227
- Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025
- Gas flow control device, including housing and input port
[NASA-CASE-NPO-11479] c15 N73-13462
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-HFS-21424-1] c34 N74-27730
- Condensate removal device for heat exchanger
[NASA-CASE-HSC-14143-1] c77 N75-20139
- Flow measuring apparatus
[NASA-CASE-LBW-12078-1] c35 N75-30503
- GAS GENERATORS**
- Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
- Gas operated quick disconnect coupling for umbilical connectors
[NASA-CASE-NPO-11202] c15 N72-25450
- Actuator operated by electrolytic drive gas generator and evacuator
[NASA-CASE-NPO-11369] c15 N73-13467
- Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c44 N76-18642
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636
- GAS GUNS**
- Electric arc device for minimizing electrode ablation and heating gases to supersonic or hypersonic wind tunnel temperatures
[NASA-CASE-XAC-00319] c25 N70-41628
- GAS HEATING**
- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
- GAS INJECTION**
- Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334
- GAS IONIZATION**
- Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
- Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c35 N76-18403
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N77-19418
- GAS LASERS**
- Gas laser frequency stabilized by position of mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c36 N75-32441
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N77-19418
- GAS LUBRICANTS**
- High temperature gas lubricant consisting of two fluoro-bromo-methanes
[NASA-CASE-XLE-00353] c18 N70-39897
- Thrust bearing
[NASA-CASE-LBW-11949-1] c37 N76-29588
- A cantilever mounted resilient pad gas bearing
[NASA-CASE-LBW-12569-1] c37 N77-24496
- GAS MASERS**
- Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578

- Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-NQN-10654-1] c16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NFO-13050-1] c36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c35 N76-15436
- GAS MIXTURES**
- Gas analyzer for bi-gaseous mixtures suitable for use in test facilities
[NASA-CASE-XLA-01131] c14 N71-10774
- Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741
- Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
- Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NFO-11222] c06 N72-25146
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
- Hydrogen-rich gas generator
[NASA-CASE-NFO-13560-1] c44 N77-10636
- GAS PIPES**
- Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
- GAS PRESSURE**
- Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
- Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
- Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
- Depressurization of arc lamps
[NASA-CASE-NFO-10790-1] c33 N77-21316
- GAS SPECTROSCOPY**
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N77-19388
- GAS STREAMS**
- Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c35 N74-32878
- Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668
- GAS TEMPERATURE**
- Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
- GAS TURBINE ENGINES**
- Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LFW-11187-1] c28 N73-19793
- Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LFW-11326-1] c23 N73-30665
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LFW-11593-1] c20 N76-14190
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LFW-11179-1] c27 N76-16229
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LFW-12419-1] c07 N77-14025
- Ocean thermal plant
[NASA-CASE-MSC-11034-1] c44 N77-21666
- Oil cooling system for a gas turbine engine
[NASA-CASE-LFW-12830-1] c07 N77-23106
- Blade retainer assembly
[NASA-CASE-LFW-12608-1] c07 N77-27116
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LFW-12270-1] c26 N77-32280
- Bearing seat usable in a gas turbine engine
[NASA-CASE-LFW-12477-1] c37 N77-32501
- GAS TURBINES**
- Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LFW-10286-1] c28 N71-28915
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LFW-11569-1] c07 N74-15453
- Counter pumping debris excluder and separator
[NASA-CASE-LFW-11855-1] c37 N76-20487
- Direct heating surface combustor
[NASA-CASE-LFW-11877-1] c44 N76-28646
- Automotive gas turbine fuel control
[NASA-CASE-LFW-12785-1] c37 N77-13426
- GAS VALVES**
- High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
- Shrink-fit vacuum system gas valve
[NASA-CASE-XGS-00587] c15 N70-35087
- Gas valve operated by thermally expanding and contracting device
[NASA-CASE-XLE-00815] c15 N70-35407
- Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
- GAS WELDING**
- Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-IMP-02039] c15 N71-15871
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c37 N75-19683
- GAS-LIQUID INTERACTIONS**
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
- GASDYNAMIC LASERS**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ABC-10370-1] c36 N75-31426
- GASEOUS DIFFUSION**
- Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
- Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LFW-10250-1] c22 N71-28759
- GASEOUS FISSION REACTORS**
- Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
- Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LFW-10250-1] c22 N71-28759
- GASEOUS ROCKET PROPELLANTS**
- Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
- Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
[NASA-CASE-IMP-06926] c28 N71-22983
- GASES**
- Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
- High speed scanner for measuring mass of preselected gases at high sampling rate
[NASA-CASE-LAR-10766-1] c14 N72-21432
- Observation window for internal gas confining chamber
[NASA-CASE-NPO-10890] c11 N73-12265
- Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484
- GASKETS**
- Leakproof soft metal seal for use in very high vacuum systems operating at cryogenic temperatures
[NASA-CASE-IGS-02441] c15 N70-41629
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-HPS-21364-1] c37 N74-18126

GATES (CIRCUITS)

Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123

Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XIA-07497] c09 N71-12514

Logic AND gate for fluid circuits
[NASA-CASE-XLA-07391] c12 N71-17579

Synchronous counter design incorporating cascaded binary stages driven by previous stages and inputs through NAND gates
[NASA-CASE-XGS-02440] c08 N71-19432

Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23316

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803

GATES (OPENINGS)

Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935

GAW-1 AIRFOIL

Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c02 N76-22154

GEARS

Precision stepping drive device using cam disk
[NASA-CASE-MFS-14772] c15 N71-17692

Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-XGS-04227] c15 N71-21744

Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c37 N74-27901

Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N77-19459

GELLED ROCKET PROPELLANTS

Method and apparatus for producing fine particles in cryogenic liquid bath for gelled rocket propellants
[NASA-CASE-NFO-10250] c23 N71-16212

GELS

Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNF-00920] c15 N71-15906

GENERATORS

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730

GERMANIUM

Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084

GIMBALS

Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-XMP-01544] c28 N70-34162

Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XMP-01669] c21 N71-23289

Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimbaled package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694

Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243

Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175

GLANDS (SEALS)

Development of mating flat surfaces to inhibit leakage of fluid around shafts

[NASA-CASE-XLE-10326-2] c15 N72-29488

GLASS

Fabricating solar cells with dielectric layers to improve glass fusion
[NASA-CASE-XGS-04531] c03 N69-24267

Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988

Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
[NASA-CASE-XLE-08569] c03 N71-23449

Apparatus for applying thin glass slides to solar cells
[NASA-CASE-NFO-10575] c03 N72-25019

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063

Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600

Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c27 N77-10201

Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899

Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482

GLASS COATINGS

Method of attaching cover glass to silicon solar cell without using adhesive
[NASA-CASE-XLE-08569-2] c03 N71-24681

Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582

Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037

GLASS ELECTRODES

Liquid junction for glass electrode or pH meters
[NASA-CASE-NFO-10682] c15 N70-34699

GLASS FIBERS

Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-XGS-00886] c03 N71-11053

Lathe tool and holder combination for machining resin impregnated fiberglass cloth laminates
[NASA-CASE-XLA-10470] c15 N72-21489

Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit boards
[NASA-CASE-MFS-20408] c18 N73-12604

Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c24 N74-30001

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c27 N76-15310

Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c37 N76-24575

Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173

GLAUCOMA

Intra-ocular pressure normalization apparatus
[NASA-CASE-LEW-12955-1] c52 N77-30736

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c52 N77-30737

GLIDE PATHS

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930

GLOBES

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015

GLOVES

Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080

GLOW DISCHARGES

Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c27 N74-13270

SUBJECT INDEX

GUIDANCE (NOTION)

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c54 N77-24771

GLUCOSE
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
[NASA-CASE-IGS-05533] c04 N69-27487

GOLD COATINGS
Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191

GONDOLAS
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008

GRANULAR MATERIALS
Development of device for separating, collecting, and viewing soil particles
[NASA-CASE-XNP-09770] c15 N71-20440

GRAPHITE
Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-XGS-00963] c15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MPS-21077-1] c24 N75-28135
Graphite reinforced bone cement
[NASA-CASE-NPO-13764-1] c24 N76-26281

GRATINGS (SPECTRA)
Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-IGS-01036] c14 N70-40003

GRAVIMETERS
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMP-05844] c14 N71-17587

GRAVITATION
Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
Anti-gravity device
[NASA-CASE-MPS-22758-1] c70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
[NASA-CASE-XMP-00424] c11 N70-38196

GRAVITATIONAL EFFECTS
Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c51 N75-25503

GRAVITATIONAL FIELDS
Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537

GRAVITY GRADIENT SATELLITES
Stabilization system for gravity-oriented satellites using single damper rod
[NASA-CASE-XAC-01591] c31 N71-17729
Method of stationkeeping for lenticular gravity gradient satellites
[NASA-CASE-XLA-03132] c31 N71-22969

GRAVITY GRADIENTERS
Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
[NASA-CASE-XMP-00424] c11 N70-38196
Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324

GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276

Solar cell grid patterns
[NASA-CASE-NFO-13087-2] c44 N76-31666

GRINDING (MATERIAL REMOVAL)
Laser device for removing material from rotating object for dynamic balancing
[NASA-CASE-MPS-11279] c16 N71-20400
Grinding mixtures of powdered metals and inert fillers for conversion to halide
[NASA-CASE-LEW-10450-1] c15 N72-25448

GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c37 N74-27905

GROOVES
Nonreusable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMP-10040] c15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c37 N74-15125
Splash groove fuel injector
[NASA-CASE-LEW-12417-1] c07 N76-22198

GROUND EFFECT MACHINES
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-HSC-12111-1] c02 N71-11039
Platform with several ground effect pads and plenum chambers
[NASA-CASE-MPS-14685] c31 N71-15689
Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c85 N74-34672

GROUND HANDLING
Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping
[NASA-CASE-XMP-00580] c11 N70-35383

GROUND STATIONS
Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NFO-11001] c07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373

GROUND SUPPORT EQUIPMENT
Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
Controlled release device for use in launching rockets or missiles
[NASA-CASE-IRS-03338] c15 N71-24043

GROUND-AIR-GROUND COMMUNICATIONS
Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-IGS-04480] c16 N69-27491
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-BIC-10324] c07 N72-25173

GROUP VELOCITY
Swept group delay measurement
[NASA-CASE-NFO-13909-1] c33 N77-17358

GUIDANCE (NOTION)
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-HSC-12111-1] c02 N71-11039
Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935

GUIDANCE SENSORS

SUBJECT INDEX

- Combination guide and rotary bearing for freely moving shaft
[NASA-CASE-XLA-00013] c15 N71-29136
- Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453
- GUIDANCE SENSORS**
- Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
- Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
- Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
- Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NFO-11311] c14 N72-25414
- Sun direction detection system
[NASA-CASE-NFO-13722-1] c74 N77-22951
- GUN LAUNCHERS**
- Self-obturator gas-operated launcher for launching projectiles in decontaminated medium
[NASA-CASE-NPO-11013] c11 N72-22247
- GUN PROPELLANTS**
- Nitramine propellants
[NASA-CASE-NPO-14103-1] c28 N77-25346
- GUNN EFFECT**
- Voltage tunable Gunn effect semiconductor for microwave generation
[NASA-CASE-XER-07894] c09 N71-18721
- Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
- Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
- Microwave generator using Gunn effect for magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235
- GUNS**
- Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c37 N76-18454
- GYRATORS**
- Design of gyrator circuit using operational amplifiers to replace ungrounded inductors
[NASA-CASE-XAC-10608-1] c09 N71-12517
- Gyrator circuit using MOS field effect transistors
[NASA-CASE-MFS-21433] c09 N73-20232
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c33 N74-34638
- Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c33 N75-30428
- GYROSCOPES**
- Externally pressurized air bearing for gyros operating in high temperature, low gravity environments
[NASA-CASE-XMF-00515] c15 N70-34664
- Air bearings for spacecraft gyros
[NASA-CASE-XMF-00339] c15 N70-39896
- Development of spacecraft experiment pointing and attitude control system
[NASA-CASE-XLA-05464] c21 N71-14132
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NFO-13044-1] c35 N74-15094
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c35 N77-20399
- GYROSTABILIZERS**
- Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c35 N74-28097
- Angular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c15 N76-14158
- HAFNIUM**
- Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584
- HALIDES**
- Grinding mixtures of powdered metals and inert fillers for conversion to halide
[NASA-CASE-LEW-10450-1] c15 N72-25448
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NFO-11961-1] c44 N76-18643
- HALL EFFECT**
- Current measurement by use of Hall effect generator
[NASA-CASE-XAC-01662] c14 N71-23037
- Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904
- Development of Hall effect transducer for converting mechanical shaft rotations into proportional electrical signals
[NASA-CASE-LAR-10620-1] c09 N72-25255
- Speed control system for dc motor equipped with brushless Hall effect device
[NASA-CASE-MFS-20207-1] c09 N73-32107
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
- HALL GENERATORS**
- Current measurement by use of Hall effect generator
[NASA-CASE-XAC-01662] c14 N71-23037
- HALOGENS**
- Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
- HAMMERS**
- Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446
- HAND (ANATOMY)**
- Mechanically operated hand which can depress trigger using touch control device
[NASA-CASE-MFS-20413] c15 N72-21463
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c52 N76-19785
- Compact artificial hand
[NASA-CASE-NPO-13906-1] c54 N77-32723
- HANDLING EQUIPMENT**
- Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping
[NASA-CASE-XMF-00580] c11 N70-35383
- Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339
- HARDENING (MATERIALS)**
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
- HARMONIC GENERATORS**
- Wideband generator for producing sine wave quadrature and second harmonic of input signal
[NASA-CASE-NPO-11133] c10 N72-20223
- HARNESSES**
- Helmet and torso tiedown mechanism for shortening pressure suits upon inflation
[NASA-CASE-XMS-00784] c05 N71-12335
- One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085
- Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915
- HATCHES**
- Design and specifications of emergency escape system for spacecraft structures
[NASA-CASE-MSC-12086-1] c05 N71-12345
- HEART**
- EKG and ultrasonoscope display
[NASA-CASE-ARC-10994-2] c52 N77-15619
- HEART FUNCTION**
- Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-MFS-20418] c14 N73-24473
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
- HEART RATE**
- Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
- Development of instantaneous reading tachometer for measuring electrocardiogram signal rate

- [NASA-CASE-MFS-20418] c14 N73-24473
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c52 N74-12778
- HEAT**
Thermionic converter for converting heat energy directly into electrical energy
[NASA-CASE-XLE-01903] c22 N71-23599
- HEAT EXCHANGERS**
Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-05571] cC5 N71-19439
Dual solid cryogenics for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPO-10831] c33 N72-20915
Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-NPO-10634] c23 N72-25619
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c34 N75-19579
A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c34 N77-10463
A thermal energy transformer
[NASA-CASE-NFO-14058-1] c44 N77-30616
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c34 N77-32413
- HEAT FLUX**
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-11828] c33 N72-17948
- HEAT MEASUREMENT**
Electromagnetic energy detection by thermal sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c35 N74-27860
- HEAT PIPES**
Electric power system utilizing thermionic plasma diodes in parallel and heat pipes as cathodes
[NASA-CASE-XMP-05843] c03 N71-11055
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c25 N76-29379
- HEAT PUMPS**
Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
Manually activated heat pump for mechanically converting human operator output into heat energy
- [NASA-CASE-NFO-10677] c05 N72-11084
Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NFO-11417] c15 N73-29513
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c34 N77-15343
Magnetic heat pumping
[NASA-CASE-LEW-12508-2] c34 N77-32435
- HEAT RADIATORS**
Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
Hydraulic actuator design for space deployment of heat radiators
[NASA-CASE-MSC-11817-1] c15 N71-26611
Development of method and equipment for testing heat radiative properties of material under controlled environmental conditions
[NASA-CASE-MFS-20096] c14 N71-30026
- HEAT RESISTANT ALLOYS**
Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
High temperature cobalt-base alloy resistant to corrosion by liquid metals and to sublimation in vacuum environment
[NASA-CASE-XLE-02991] c17 N71-16025
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XMP-03063] c17 N71-23365
Superalloys from prealloyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c37 N74-13179
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
Cement composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NFO-13120-1] c27 N76-15311
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c35 N77-20400
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c26 N77-32280
- HEAT SHIELDING**
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871
Compact heat shielding for interplanetary space vehicles
[NASA-CASE-XMS-00486] c33 N70-33344
Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMP-08656] c06 N71-11242

- Synthesis of Schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMF-08652] c06 N71-11243
- Preparation and characteristics of lightweight refractory insulation
[NASA-CASE-XMF-05279] c18 N71-16124
- Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
- Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
- Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c34 N77-22423
- Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles
[NASA-CASE-MSC-12619-2] c16 N77-31237
- HEAT SINKS**
- Thermal conductive, electrically insulated cleavable adhesive connection between electronic module and heat sink
[NASA-CASE-XMS-02087] c09 N70-41717
- Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-XMF-04208] c33 N71-29051
- Electroexplosive device
[NASA-CASE-NFO-13858-1] c28 N77-17258
- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c34 N77-19353
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NFO-13147-1] c36 N77-25502
- HEAT SOURCES**
- Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
- Thermally cascaded thermoelectric generator with radionuclides heat source
[NASA-CASE-NFO-10753] c03 N72-26031
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
- HEAT STORAGE**
- Solar energy trap
[NASA-CASE-MFS-22744-1] c44 N76-24696
- Portable, linear-focused solar thermal energy collecting system
[NASA-CASE-NFO-13734-1] c44 N76-26690
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-22167-1] c44 N76-31667
- HEAT TRANSFER**
- Thermal switch for transferring excess heat from one region to another heat dissipating one
[NASA-CASE-XNP-00463] c33 N70-36847
- Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979
- Apparatus for cryogenic liquid storage with heat transfer reduction and for liquid transfer at zero gravity conditions
[NASA-CASE-XLE-00345] c15 N70-38020
- Method for improving heat transfer characteristics in nucleate boiling process
[NASA-CASE-XMS-04268] c33 N71-16277
- Design and development of device for cooling inner conductor of coaxial cable
[NASA-CASE-XNP-05775] c09 N71-20445
- Heat sensing instrument, using thermocouple junction connected under heavy conducting material
[NASA-CASE-XLA-01551] c14 N71-22989
- Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NFO-10691] c14 N71-26199
- Development and characteristics of cooling system to maintain temperature of rack mounted electronic modules
[NASA-CASE-MSC-12389] c33 N71-29052
- Development of method and equipment for testing heat radiative properties of material under controlled environmental conditions
[NASA-CASE-MFS-20096] c14 N71-30026
- Manually activated heat pump for mechanically converting human operator output into heat energy
[NASA-CASE-NFO-10677] c05 N72-11084
- High intensity radiant energy pulse source for calibrating heat transfer gages with thermoluminescent shutter activation
[NASA-CASE-ARC-10178-1] c09 N72-17152
- Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410
- Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer
[NASA-CASE-GSC-11018-1] c31 N73-30829
- Thermal flux transfer system for maintaining thrust chamber of operative reaction motor at given temperatures
[NASA-CASE-NFO-12070-1] c28 N73-32606
- Electrostatically controlled heat transfer system for conducting thermal energy
[NASA-CASE-NFO-11942-1] c33 N73-32818
- Heat transfer device
[NASA-CASE-NFO-11120-1] c34 N74-18552
- Heat exchanger
[NASA-CASE-MFS-22991-1] c34 N77-10463
- HEAT TRANSMISSION**
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c34 N74-27859
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
- HEAT TREATMENT**
- High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
- Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871
- Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
- Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
- White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
- Method for diffusion welding dissimilar metals in vacuum chamber
[NASA-CASE-GSC-10303] c15 N72-22487
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c26 N74-10521
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c37 N74-21055
- Heat sterilizable patient ventilator
[NASA-CASE-NFO-13313-1] c54 N75-27761
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714
- HEATERS**
- Reliable electrical element heater using plural wire system and backup power sources
[NASA-CASE-MFS-21462-1] c33 N74-14935
- HEATING**
- Development of system for preheating vaporized fuel for use with internal combustion engines
[NASA-CASE-NFO-12072] c28 N72-22772
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c37 N74-18128
- HEATING EQUIPMENT**
- Using heat control unit to preheat circulating fluid

- [NASA-CASE-IMP-04237] c33 N71-16278
Electric arc heater with supersonic nozzle and fixed arc length for use in high temperature wind tunnels
- [NASA-CASE-XAC-01677] c09 N71-20816
Radial heat flux transformer for use in heating and cooling processes
- [NASA-CASE-NFO-10828] c33 N72-17948
Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
- [NASA-CASE-MSC-15567-1] c33 N73-16918
HELICAL ANTENNAS
Weatherproof helix antenna
- [NASA-CASE-IKS-08485] c07 N71-19493
Collapsible high gain antenna which can be automatically expanded to operating state
- [NASA-CASE-KSC-10392] c07 N73-26117
HELICOPTER DESIGN
Automatically lockable axially extensible strut --- for helicopters
- [NASA-CASE-LAR-11900-1] c05 N77-18134
HELICOPTER WAKES
Variable geometry rotor system for direct control over wake vortex
- [NASA-CASE-LAR-10557] c02 N72-11018
HELICOPTERS
Hingeless helicopter rotor with improved stability
- [NASA-CASE-ARC-10807-1] c05 N77-17029
Nondestructive method for instrumenting helicopter rotor blades
- [NASA-CASE-LAR-11201-1] c35 N77-22452
Constant lift rotor for a heavier than air craft
- [NASA-CASE-ARC-11045-1] c05 N77-28111
HELIUM
Helium refining by superfluidity
- [NASA-CASE-IMP-00733] c06 N70-34946
Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
- [NASA-CASE-IMP-06888] c15 N71-24044
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
- [NASA-CASE-NFO-13346-1] c36 N76-29575
Cryostat system for temperatures on the order of 2 deg K or less
- [NASA-CASE-NFO-13459-1] c31 N77-10229
Stabilization of He₂(a-3 Sigma^u(+)) molecules in liquid helium by optical pumping for vacuum UV laser
- [NASA-CASE-NFO-13993-1] c36 N77-24468
HELIUM IONS
Charge transfer reaction laser with preionization means
- [NASA-CASE-NFO-13945-1] c36 N77-19418
HELIUM-NEON LASERS
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light collector as receiving antenna
- [NASA-CASE-LAR-10311-1] c16 N73-16536
HELMETS
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
- [NASA-CASE-XMS-04935] c05 N71-11190
Electrode attached to helmets for detecting low level signals from skin of living creatures
- [NASA-CASE-ARC-10043-1] c05 N71-11193
Venting device for pressurized space suit helmet to eliminate vomit expelled by crewmen
- [NASA-CASE-XMS-09652-1] c05 N71-26333
HEMISPHERICAL SHELLS
Light baffle with oblate hemispheroid surface and shading flange
- [NASA-CASE-NFO-10337] c14 N71-15604
HERMETIC SEALS
Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
- [NASA-CASE-XMS-04072] c15 N70-42017
Hermetically sealed explosive release mechanism for actuator device
- [NASA-CASE-XGS-00824] c15 N71-16078
Sealing apparatus for joining two pieces of frangible materials
- [NASA-CASE-XLA-01494] c15 N71-24164
Method for locating leaks in hermetically sealed containers
- [NASA-CASE-ZEC-10045] c15 N71-24910
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
- [NASA-CASE-MSC-10959] c15 N71-26243
Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
- [NASA-CASE-IMP-01263-2] c15 N71-26312
Pressure seals suitable for use in environmental test chambers
- [NASA-CASE-NFO-10796] c15 N71-27068
Hermetic sealing device for ends of tubular bodies during materials testing operations
- [NASA-CASE-NFO-10431] c15 N71-29132
Hermetically sealed elbow actuator for use in severe environments
- [NASA-CASE-MFS-14710] c09 N72-22195
Heat transfer device
- [NASA-CASE-NFO-11120-1] c34 N74-18552
Device for tensioning test specimens within an hermetically sealed chamber
- [NASA-CASE-MFS-23281-1] c35 N77-22450
HEXOKINASE
Use of enzyme hexokinase and glucose to reduce inherent light levels of ATP in luciferase compositions
- [NASA-CASE-XGS-05533] c04 N69-27487
HIGH ACCELERATION
Astronaut restraint suit for high acceleration protection
- [NASA-CASE-XAC-00405] c05 N70-41819
HIGH ALTITUDE
Compact bellows spirometer for high speed and high altitude space travel
- [NASA-CASE-XAR-01547] c05 N69-21473
HIGH ALTITUDE ENVIRONMENTS
Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
- [NASA-CASE-XLA-04126] c28 N71-26779
HIGH ASPECT RATIO
Aerospace configuration with low and high aspect ratio variability for high and low speed flight
- [NASA-CASE-XLA-00142] c02 N70-33286
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
- [NASA-CASE-XLA-00806] c02 N70-34858
HIGH CURRENT
High voltage, high current Schottky barrier solar cell
- [NASA-CASE-NFO-13482-1] c44 N74-30448
HIGH FREQUENCIES
Apparatus for ballasting high frequency transistors
- [NASA-CASE-XGS-05003] c09 N69-24318
Holder for high frequency crystal resonators
- [NASA-CASE-IMP-03637] c15 N71-21311
Multiple varactor for generating high frequencies with high power and high conversion efficiency
- [NASA-CASE-IMP-04958-1] c10 N71-26414
HIGH PASS FILTERS
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
- [NASA-CASE-XGS-01418] c09 N71-23573
HIGH POLYMERS
Shock and vibration damping device using temperature sensitive solid amorphous polymers
- [NASA-CASE-XAC-11225] c14 N69-27486
HIGH PRESSURE
High-temperature, high-pressure spherical segment valve
- [NASA-CASE-XAC-00074] c15 N70-34817
High pressure four-way valve with O ring adapted to pass across inlet port
- [NASA-CASE-IMP-00214] c15 N70-36908
Compact high pressure filter for rocket fuel lines
- [NASA-CASE-IMP-00732] c28 N70-41447
Antiflutter check valve for use with high pressure fluid flow
- [NASA-CASE-IMP-01152] c15 N70-41811

- High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074
- Structural design of high pressure regulator valve
[NASA-CASE-XNP-0071C] c15 N71-10778
- Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
- Development and characteristics of high pressure control valve
[NASA-CASE-FSC-11010] c15 N71-19485
- Valve seat with resilient support ring for venting valves subjected to high pressure sealing loads
[NASA-CASE-XKS-02582] c15 N71-21234
- Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
[NASA-CASE-XMF-06888] c15 N71-24044
- Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MFS-20829] c12 N72-21310
- Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404
- HIGH RESOLUTION**
- High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N76-31490
- HIGH SPEED**
- Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-IAR-01547] c05 N69-21473
- High speed low level voltage commutating switch
[NASA-CASE-IAC-00060] c09 N70-39915
- Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
- Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-IFR-02007] c12 N71-24692
- Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
- Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c75 N76-14931
- Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c60 N77-19760
- Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404
- HIGH SPEED CAMERAS**
- Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
- HIGH STRENGTH**
- Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
- HIGH STRENGTH ALLOYS**
- High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644
- High strength aluminum casting alloy for cryogenic applications in aerospace engineering
[NASA-CASE-XMF-02786] c17 N71-20743
- Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
- High strength nickel based alloys
[NASA-CASE-LEW-10874-1] c17 N72-22535
- Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415
- HIGH STRENGTH STEELS**
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NFO-12122-1] c24 N76-14203
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-1] c26 N77-24254
- HIGH TEMPERATURE**
- High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
- Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
- Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
- Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088
- Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
- Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
- Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
- Superalloys from prealloyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c33 N76-15373
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c44 N77-32581
- HIGH TEMPERATURE AIR**
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-IAR-10612-1] c12 N73-28144
- HIGH TEMPERATURE ENVIRONMENTS**
- High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
- Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
- Water cooled gage for strain measurements in high temperature environments
[NASA-CASE-XNP-09205] c14 N71-17657
- Tantalum modified ferritic iron base alloys --- for use in high temperature environments
[NASA-CASE-LEW-12095-1] c26 N76-17233
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N76-21390
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c31 N76-31365
- HIGH TEMPERATURE FLUIDS**
- Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918
- HIGH TEMPERATURE GASES**
- Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
- Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
- Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641
- Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-IAR-10578-1] c12 N73-25262
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477
- HIGH TEMPERATURE LUBRICANTS**
- Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105
- Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
- HIGH TEMPERATURE PLASMAS**
- Apparatus for producing highly conductive, high temperature electron plasma with homogenous

- temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
- HIGH TEMPERATURE PROPELLANTS**
Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NFO-10737] c28 N72-11709
- HIGH TEMPERATURE RESEARCH**
Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568
Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
High temperature oxidation resistant cermet compositions
[NASA-CASE-NFO-13666-1] c27 N77-13217
- HIGH TEMPERATURE TESTS**
High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
- HIGH VACUUM**
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NFO-10331] c09 N71-26701
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407
- HIGH VACUUM ORBITAL SIMULATOR**
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XNP-07488] c11 N71-18773
- HIGH VOLTAGES**
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
High voltage cable for use in high intensity ionizing radiation fields
[NASA-CASE-XNP-00738] c09 N70-38201
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-HSC-12178-1] c09 N71-13518
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NFO-13482-1] c44 N74-30448
High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16332
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385
- HIGHWAYS**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
- HISTOGRAMS**
System for storing histogram data in optimum number of elements
[NASA-CASE-XNP-09785] c08 N69-21928
- HOLDERS**
Water cooled contactors for holding rotating carbon arc anode
[NASA-CASE-XMS-03700] c15 N69-24266
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
- Design and construction of mechanical probe for determining if object is properly secured
[NASA-CASE-MFS-20760] c14 N72-33377
Fifth wheel
[NASA-CASE-PRC-10081-1] c37 N77-14477
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c37 N77-23483
- HOLE DISTRIBUTION (MECHANICS)**
Thermocouple installation
[NASA-CASE-NFO-13540-1] c35 N77-14409
- HOLE MOBILITY**
Hole mobility of deposited semiconductor films in vacuum utilizing thermal gradient
[NASA-CASE-XKS-04614] c15 N69-21460
- HOLLOW CATHODES**
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NFO-13732-1] c44 N77-19581
- HOLOGRAPHY**
Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551
Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
Recording and reconstructing focused image holograms
[NASA-CASE-ERC-10017] c16 N71-15567
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MFS-20596] c14 N72-17324
Thin film analyzer utilizing holographic techniques
[NASA-CASE-MFS-20823-1] c16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c43 N77-10584
- HOMING DEVICES**
Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-ERC-10324] c07 N72-25173
- HONEYCOMB CORES**
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NFO-11036] c15 N72-24522
Honeycomb core structures of minimum surface tubule sections
[NASA-CASE-ERC-10363] c18 N72-25541
- HONEYCOMB STRUCTURES**
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Fluid flow control valve for regulating fluids in molecular quantities
[NASA-CASE-XLE-00703] c15 N71-15967
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means

- [NASA-CASE-XMP-01402] c18 N71-21651
Development of thermal insulation material for
insulating liquid hydrogen tanks in spacecraft
[NASA-CASE-XMP-05046] c33 N71-28892
Honeycomb panels of minimal surface, periodic
tubule layers
[NASA-CASE-BRC-10364] c18 N72-25540
Development of process for bonding resinous body
in cavities of honeycomb structures
[NASA-CASE-MSC-12357] c15 N73-12489
Insert facing tool --- manually operated cutting
tool for forming studs in honeycomb material
[NASA-CASE-MPS-21485-1] c37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10C73-1] c37 N76-24575
Honeycomb-larinate composite structure
[NASA-CASE-ARC-10913-1] c24 N76-26286
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N77-15103
Low density bismaleimide-carbon microballoon
composites
[NASA-CASE-ARC-11040-1] c24 N77-19173
- HOPPERS**
Design and development of device to prevent
clogging in hoppers containing particulate
materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
- HORIZON SCANNERS**
Oscillatory electromagnetic mirror drive system
for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Multi-lobe scan horizon sensor
[NASA-CASE-XGS-00809] c21 N70-35427
Attitude orientation control of spin stabilized
final stage space vehicles, using horizon
scanners
[NASA-CASE-XLA-00281] c21 N70-36943
Clamped amplifier circuit for horizon scanner
enabling amplification and accurate
measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782
Horizon sensor design with digital sampling of
spaced radiation-compensated thermopile
infrared detectors
[NASA-CASE-XMP-06957] c14 N71-21088
Method and equipment for locating earth infrared
horizon from space, independent of season and
latitude
[NASA-CASE-LAR-10726-1] c14 N73-20475
- HORIZONTAL SPACECRAFT LANDING**
Delta winged, manned reentry vehicle capable of
horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
- HORIZONTAL TAIL SURFACES**
Development, and characteristics of translating
horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
- HORN ANTENNAS**
Device for improving efficiency of parabolic
horn antenna system for linearly polarized
signals
[NASA-CASE-XNP-00611] c09 N70-35219
Device for improving efficiency of parabolic
reflector horn for linearly or circularly
polarized waves
[NASA-CASE-XNP-00540] c09 N70-35382
Characteristics of antenna horn feeds consisting
of central horn with overlapping peripheral
horns
[NASA-CASE-GSC-10452] c07 N71-12396
Multiple mode horn antenna with radiation
pattern of equal beamwidths and suppressed
sidelobes
[NASA-CASE-XNP-01057] c07 N71-15907
Multipurpose microwave antenna, employing dish
reflector with plural coaxial horn feeds
[NASA-CASE-NFO-11264] c07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
Highly efficient antenna system using a
corrugated horn and scanning hyperbolic
reflector
[NASA-CASE-NFO-13568-1] c32 N76-21365
Reflex feed system for dual frequency antenna
[NASA-CASE-NFO-14022-1] c32 N77-24338
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339
- HOT CATHODES**
Improved cathode containing barium carbonate
block and heated tungsten screen for electron
bombardment ion thruster
[NASA-CASE-XLE-07087] c06 N69-39889
- HOT PRESSING**
Cermets for nuclear fuel constructed by pressing
metal coated ceramic particles in die at
temperature to cause bonding of metal
coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
- HOT WORKING**
Hot forming of plastic sheets
[NASA-CASE-XMS-05516] c15 N71-17803
- HOT-WIRE ANEMOMETERS**
Metallic hot wire anemometer --- for high speed
wind tunnel tests
[NASA-CASE-ARC-10911-1] c35 N77-20400
Method for making a hot wire anemometer and
product thereof
[NASA-CASE-ARC-10900-1] c35 N77-24454
- HOT-WIRE FLOWMETERS**
Hot-wire liquid level detector for cryogenic
propellants
[NASA-CASE-XLE-00454] c23 N71-17802
- HOUSINGS**
Sealed housing for protecting electronic
equipment against electromagnetic interference
[NASA-CASE-MSC-12168-1] c09 N71-18600
Open type urine receptacle with tubular housing
[NASA-CASE-MSC-12324-1] c05 N72-22093
Readily assembled universal environment housing
for electronic equipment
[NASA-CASE-KSC-10031] c15 N72-22486
Gas flow control device, including housing and
input port
[NASA-CASE-NPO-11479] c15 N73-13462
Cryogenic gyroscope housing --- with annular
disks for gas spin-up
[NASA-CASE-MPS-21136-1] c35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c37 N77-32500
- HOVERING**
Hovering type flying vehicle design and
principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039
- HUGENIOT EQUATION OF STATE**
Determining particle density using known
material Hugoniot curves
[NASA-CASE-LAR-11059-1] c76 N75-12810
- HULLS (STRUCTURES)**
Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33305
- HUMAN BEINGS**
Method and apparatus for applying compressional
forces to skeletal structure of subject to
simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738
Automatic braking device for rapidly
transferring humans or materials from elevated
location
[NASA-CASE-XKS-07814] c15 N71-27067
- HUMAN BODY**
Apparatus for measuring human body mass in zero
or reduced gravity environment
[NASA-CASE-XMS-03371] c05 N70-42000
Electromedical garment, applying
vectorcardiologic type electrodes to human
torsos for data recording during physical
activity
[NASA-CASE-IFR-10856] c05 N71-11189
Thermoregulating with cooling flow pipe network
for humans
[NASA-CASE-XMS-10269] c05 N71-24147
Tilting table for testing human body in variety
of positions while exercising on ergometer or
other biomedical devices
[NASA-CASE-MPS-21010-1] c05 N73-30078
Method and system for in vivo measurement of
bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
- HUMAN FACTORS ENGINEERING**
Shock absorbing couch for body support under
high acceleration or deceleration forces
[NASA-CASE-XMS-01240] c05 N70-35152
Harness assembly adapted to support man on
ground based apparatus which simulates
weightlessness
[NASA-CASE-MPS-14671] c05 N71-12341

- Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909
- Remote control device operated by movement of finger tips for manual control of spacecraft attitude
[NASA-CASE-XAC-02405] c09 N71-16089
- Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-HSC-12243-1] c05 N71-24728
- Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-HSC-13282-1] c05 N71-24729
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641
- Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694
- HUMAN PERFORMANCE**
Color perception tester for testing color code perceptiveness of individuals
[NASA-CASE-KSC-10278] c05 N72-16015
- HUMAN REACTIONS**
Reaction tester for testing reaction to light stimuli
[NASA-CASE-HSC-13604-1] c05 N73-13114
- HUMAN WASTES**
Reduced gravity fecal collector seat and urinal
[NASA-CASE-HFS-22102-1] c54 N74-20725
- Automatic biowaste sampling
[NASA-CASE-HSC-14640-1] c54 N76-14804
- HUMIDITY**
Passive intrusion detection system
[NASA-CASE-NFO-13804-1] c35 N77-19390
- HYBRID COMPUTERS**
Adaptive voting computer system
[NASA-CASE-HSC-13932-1] c62 N74-14920
- HYBRID PROPELLANTS**
Liner for hybrid solid propellants to bind propellant to rocket motor case
[NASA-CASE-XNP-09744] c27 N71-16392
- HYDRAULIC CONTROL**
Shear modulated fluid amplifier of high pressure hydraulic vortex amplifier type
[NASA-CASE-HFS-10412] c12 N71-17578
- Throttle valve for regulating fluid flow volume
[NASA-CASE-XNP-09698] c15 N71-18580
- Fluidic-thermochromic display device
[NASA-CASE-ERC-10031] c12 N71-18603
- Development and characteristics of variable displacement fluid pump for transforming hydraulic pressures
[NASA-CASE-HFS-20830] c15 N71-30028
- Hydraulic drain means for servo-systems
[NASA-CASE-NFO-10316-1] c37 N77-22479
- HYDRAULIC EQUIPMENT**
Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XNP-01772] c11 N70-41677
- Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XNP-03248] c11 N71-10604
- Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XNS-03252] c15 N71-10658
- Antibacklash circuit for hydraulic drive system
[NASA-CASE-XNP-01020] c03 N71-12260
- Hydraulic clamping of sheet stock specimens
[NASA-CASE-XLA-05100] c15 N71-17696
- Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XNS-03722] c15 N71-21530
- Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
- System to control speed of hydraulically movable members by limiting energy applied to actuators with hydraulic servo loop
[NASA-CASE-ARC-10131-1] c15 N71-27754
- Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
- Development and characteristics of variable displacement fluid pump for transforming hydraulic pressures
[NASA-CASE-HFS-20830] c15 N71-30028
- Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-HFO-11118] c03 N72-25021
- Design and development of device to prevent geysering during convective circulation of cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486
- Redundant hydraulic control system for actuators with three main valve combination
[NASA-CASE-HFS-20944] c15 N73-13466
- Rocket propellant injector with porous faceplate for rocket engine combustion chamber
[NASA-CASE-LBW-11071-1] c27 N73-27695
- Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
- Combined pressure regulator and shutoff valve
[NASA-CASE-NFO-13201-1] c37 N75-15050
- Ultrasonically bonded valve assembly
[NASA-CASE-NFO-13360-1] c37 N75-25185
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-HSC-14273-1] c34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-HFS-22323-1] c37 N76-14463
- Actuator device for artificial leg
[NASA-CASE-HFS-23225-1] c52 N77-14735
- HYDRAULIC FLUIDS**
Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c34 N74-34881
- Safety flywheel
[NASA-CASE-HCN-10888-1] c37 N77-22484
- HYDRAZINE NITROFORM**
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NFO-12015] c27 N73-16764
- HYDRAZINES**
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
- Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
[NASA-CASE-XNP-03459-2] c18 N71-15688
- Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NFO-11433] c18 N71-31140
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NFO-12122-1] c24 N76-14203
- HYDROCARBON FUELS**
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLB-00010] c15 N70-33382
- Hydrogen rich gas generator
[NASA-CASE-NFO-13342-2] c44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NFO-13464-2] c44 N76-29704
- HYDROCARBONS**
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NFO-12015] c27 N73-16764
- Hydrogen rich gas generator
[NASA-CASE-NFO-13342-1] c37 N76-16446
- Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
[NASA-CASE-HSC-12669-1] c44 N76-16621
- In-situ laser retorting of oil shale
[NASA-CASE-LBW-12217-1] c36 N77-18429
- Combustion engine --- for air pollution control
[NASA-CASE-NFO-13671-1] c37 N77-31497
- HYDROCHLORIC ACID**
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NFO-13474-1] c45 N76-21742
- HYDROFOILS**
Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33303

HYDECFORMING

Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLF-05641-1] c15 N71-26346

HYDROGEN

Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733

Preventing pressure buildup in electrochemical cells by reacting palladium oxide with evolved hydrogen
[NASA-CASE-XGS-01419] c03 N70-41864

Development of pulse-activated polarographic hydrogen detector
[NASA-CASE-XMF-06531] c14 N71-17575

Development of device for detecting hydrogen in ambient environments
[NASA-CASE-MFS-11537] c14 N71-20442

Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NPO-11322] c06 N72-25146

Hydrogen fire blink detector for high altitude rocket or ground installation
[NASA-CASE-MFS-15063] c14 N72-25412

Separation of dissolved hydrogen from water and coating with palladium black
[NASA-CASE-MSC-13335-1] c06 N72-31140

Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-BQN-10654-1] c16 N73-13489

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NFO-13050-1] c36 N75-15029

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c35 N76-15436

Hydrogen rich gas generator
[NASA-CASE-NFO-13342-1] c37 N76-16446

Hydrogen-bromine secondary battery
[NASA-CASE-NFO-13237-1] c44 N76-18641

Hydrogen-rich gas generator
[NASA-CASE-NFO-13464-1] c44 N76-18642

Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c44 N77-22607

Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580

HYDROGEN EMBRITTLEMENT

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NFO-12122-1] c24 N76-14203

HYDROGEN FUELS

Atomic hydrogen storage method and apparatus --- in strong magnetic fields
[NASA-CASE-LFW-12081-1] c28 N76-22399

Hydrogen rich gas generator
[NASA-CASE-NFO-13342-2] c44 N76-29700

Hydrogen rich gas generator
[NASA-CASE-NFO-13464-2] c44 N76-29704

Hydrogen-rich gas generator
[NASA-CASE-NFO-13560-1] c44 N77-10636

HYDROGEN OXYGEN ENGINES

Hydrogen-fueled engine
[NASA-CASE-NFO-13763-1] c37 N77-11398

HYDROGEN OXYGEN FUEL CELLS

Electrolytically regenerative hydrogen-oxygen fuel cells
[NASA-CASE-XLF-04526] c03 N71-11052

Water electrolysis rocket engine with self-regulating stoichiometric fuel mixing regulator
[NASA-CASE-XGS-08729] c28 N71-14044

HYDROGEN PEROXIDE

Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504

HYDROGENATION

Producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-00158] c26 N70-36805

Compact hydrogenator
[NASA-CASE-NFO-11682-1] c35 N74-15127

HYDROSTATICS

Hydrostatic bearing support
[NASA-CASE-LFW-11158-1] c37 N77-28486

HYDROXIDES

Method for determining presence and type of OH in HgO

[NASA-CASE-NFO-10774] c06 N72-17095

HYGROMETERS
Polymeric electrolytic hygrometer
[NASA-CASE-NFO-13948-1] c35 N77-28470

HYGROSCOPICITY
Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NFO-10051] c18 N71-24934

HYPERFINE STRUCTURE
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142

HYPERGOLIC ROCKET PROPELLANTS
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375

Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992

Method for igniting solid propellant rocket motors by injecting hypergolic fluids
[NASA-CASE-XLE-01988] c27 N71-15634

HYPERSONIC AIRCRAFT
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c05 N74-10907

HYPERSONIC FLOW
Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XLA-05378] c11 N71-21475

HYPERSONIC SPEED
Leading edge design for hypersonic reentry vehicles
[NASA-CASE-XLA-00165] c31 N70-33242

Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010

Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674

Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088

Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c12 N73-25262

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144

HYPERSONIC VEHICLES
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015

HYPERVELOCITY GUNS
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213

Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578

Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152

HYPERVELOCITY IMPACT
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NFO-12127-1] c91 N74-13130

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405

HYPERVELOCITY PROJECTILES
Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282

Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MFS-20596] c14 N72-17324

HYPERVELOCITY WIND TUNNELS

- Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XIA-00378] c11 N71-15925
- Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XIA-05378] c11 N71-21475

HYSTERESIS

- Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504

IGNITERS

- Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-NFS-21675-1] c25 N74-33378
- Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c20 N76-29365

IGNITION

- Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XIA-00327] c25 N71-29184

IGNITION LIMITS

- High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518

IGNITION SYSTEMS

- Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XIE-00207] c28 N70-33375
- Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
- Igniter capsule for chemical ignition of liquid rocket propellants
[NASA-CASE-XIE-00323] c28 N70-38505
- Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385

IGNITION TEMPERATURE

- Test chamber for determining decomposition and autoignition of materials used in spacecraft under controlled environmental conditions
[NASA-CASE-KSC-10198] c11 N71-28629

ILLUMINATING

- Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c44 N77-15493

ILLUMINATORS

- Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XNP-03844-1] c14 N71-26474
- Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-BQN-10781] c23 N71-30292

IMAGE CONTRAST

- Video signal enhancement of signal component representing brightness of scene element in low contrast
[NASA-CASE-NPO-10343] c07 N71-27341
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932

IMAGE CONVERTERS

- Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118
- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c36 N75-19652
- Resistive anode image converter
[NASA-CASE-BQN-10876-1] c33 N76-27473

IMAGE CORRELATORS

- Multiple pattern holographic information storage and readout system
[NASA-CASE-ERC-10151] c16 N71-29131

- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014

IMAGE DISSECTOR TUBES

- Apparatus for calibrating an image dissector tube
[NASA-CASE-NFS-22208-1] c33 N75-26244
- Electronic optical transfer function analyzer
[NASA-CASE-NFS-21672-1] c74 N76-19935

IMAGE ENHANCEMENT

- Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539
- Physical correction filter for improving the optical quality of an image
[NASA-CASE-BQN-10542-1] c74 N75-25706
- Method of post-process intensification of images on photographic films and plates
[NASA-CASE-NFS-23461-1] c35 N76-26449
- A miniature implantable ultrasonic echosonometer
[NASA-CASE-ABC-11035-1] c52 N77-15621

IMAGE FILTERS

- Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XIA-00062] c14 N70-33254
- Physical correction filter for improving the optical quality of an image
[NASA-CASE-BQN-10542-1] c74 N75-25706

IMAGE INTENSIFIERS

- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c33 N76-23482
- Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471

IMAGE TUBES

- Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c33 N74-21850
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893

IMAGERY

- Surface roughness measuring system
[NASA-CASE-NPO-13862-1] c32 N77-17325

IMAGES

- Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XNP-03844-1] c14 N71-26474
- Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ABC-10160-1] c23 N72-27728

IMAGING TECHNIQUES

- Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
- Noise elimination in coherent imaging system by axial rotation of optical lens for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
- Phototransistor imaging system with mosaic of phototransistors on semiconductor substrate
[NASA-CASE-NFS-20809] c23 N73-13660
- Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
- Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
- Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499
- Ritchey-Chretien telescope responsive to images located off telescope optical axis
[NASA-CASE-GSC-11487-1] c14 N73-30393
- Data storage, image tube type
[NASA-CASE-MSC-14053-1] c60 N74-12888
- Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095
- Field sequential stereo television
[NASA-CASE-MSC-12616-1] c32 N74-32601
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
- Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471

INIDS

- Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XIA-08802] c06 N71-11238

- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c31 N74-13177
- IMINES**
Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XMP-08651] c06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMP-08655] c06 N71-11239
Synthesis of schiff bases for heat shields by acetal arine reactions
[NASA-CASE-XMP-08652] c06 N71-11243
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMP-03074] c06 N71-24740
- IMMOBILIZATION**
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMP-06589] c05 N71-23159
Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
- IMPACT**
Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443
System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
- IMPACT ACCELERATION**
Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LPR-10193-1] c15 N71-27146
- IMPACT DAMAGE**
Measuring micrometeoroid depth of penetration into various materials
[NASA-CASE-XLA-00941] c14 N71-23240
- IMPACT LOADS**
Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-INP-04817] c14 N71-23225
- IMPACT RESISTANCE**
Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188
- IMPACT STRENGTH**
High impact pressure regulator having minimum number of lightweight movable elements
[NASA-CASE-NPO-10175] c14 N71-18625
- IMPACT TESTING MACHINES**
Development and characteristics of pentrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-INP-04817] c14 N71-23225
- IMPACT TOLERANCES**
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
- IMPEDANCE MATCHING**
Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
Reflectometer for receiver input impedance match measurement
[NASA-CASE-INP-10843] c07 N71-11267
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-23573
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-XGS-02290] c07 N71-28809
- IMPEDANCE MEASUREMENTS**
Development of electrical system for measuring high impedance.
- [NASA-CASE-XMS-08589-1] c09 N71-20569
- IMPLANTATION**
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772
- IMPLOSIONS**
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578
- IMPROVEMENT**
Improved solar heating system
[NASA-CASE-LAR-12009-1] c44 N76-32649
- IMPULSE GENERATORS**
Percutaneous connector device
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[NASA-CASE-XMP-01016] c26 N71-17818
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[NASA-CASE-NPO-13606-1] c35 N75-19627
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[NASA-CASE-XLA-00791] c03 N70-39930
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[NASA-CASE-XLE-01609] c14 N71-10500
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[NASA-CASE-NFS-13686] c15 N71-18132
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[NASA-CASE-NFS-13130] c10 N72-17173
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[NASA-CASE-NFS-23405-1] c26 N77-29260
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[NASA-CASE-LEW-10330-1] c09 N72-27226
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[NASA-CASE-NPO-13792-1] c35 N77-32455
- INDUCTION HEATING**
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Voltage controlled oscillator circuit for two-phase induction motor control
[NASA-CASE-NFS-21465-1] c10 N73-32145
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[NASA-CASE-NFS-22088-1] c33 N75-15874
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[NASA-CASE-XLE-01609] c14 N71-10500
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[NASA-CASE-XGS-04227] c15 N71-21744
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[NASA-CASE-MSC-10959] c15 N71-26243
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[NASA-CASE-XMS-02184] c15 N71-20813
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[NASA-CASE-XMF-01669] c21 N71-23289
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[NASA-CASE-NFO-13044-1] c35 N74-15094
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[NASA-CASE-MFS-22787-1] c15 N77-10113
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[NASA-CASE-XGS-04393] c21 N71-14159
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[NASA-CASE-XAC-03107] c23 N71-16098
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Detection of microbial infection in blood and antibiotic determinations
[NASA-CASE-GSC-12045-1] c52 N77-18733
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[NASA-CASE-XLA-01291] c33 N70-36617
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
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[NASA-CASE-XLA-04143] c15 N71-17687
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[NASA-CASE-XLA-03497] c15 N71-23052
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[NASA-CASE-XMS-06162] c31 N71-28851
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[NASA-CASE-XLA-06095] c01 N69-39981
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[NASA-CASE-XMS-00864] c05 N70-36493
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
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[NASA-CASE-XLA-01926] c14 N71-15620
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[NASA-CASE-XGS-03351] c31 N71-16081
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[NASA-CASE-XGS-02884] c15 N71-22705
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[NASA-CASE-XLA-03492] c15 N71-22713
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[NASA-CASE-XMS-10993] c15 N71-28936
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[NASA-CASE-MFS-20619] c28 N72-11708
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[NASA-CASE-LAB-10241-1] c54 N74-14845
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[NASA-CASE-XMP-09750] c14 N69-39937
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[NASA-CASE-XMP-03934] c09 N71-22985
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[NASA-CASE-NFO-13348-1] c33 N75-31332
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[NASA-CASE-XLA-00120] c21 N70-33181
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[NASA-CASE-NFO-11919-1] c35 N74-11284
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[NASA-CASE-GSC-12058-1] c74 N77-26942
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[NASA-CASE-XLR-10466] c17 N69-25147
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[NASA-CASE-LAR-11027-1] c35 N74-18088
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[NASA-CASE-XLA-00120] c21 N70-33181
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[NASA-CASE-LAR-10726-1] c14 N73-20475
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[NASA-CASE-ARC-10370-1] c36 N75-31426
- INFRARED SPECTROMETERS**
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[NASA-CASE-XLA-03273] c14 N71-18699
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[NASA-CASE-ARC-10749-1] c23 N73-32542
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[NASA-CASE-NFO-13569-2] c33 N77-28395
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[NASA-CASE-MSC-11847-1] c14 N72-11363
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[NASA-CASE-XLA-00791] c03 N70-39930
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injection device for spacecraft applications
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[NASA-CASE-XLF-00103] c28 N70-33241
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efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
Injector manifold assembly for bipropellant
rocket engines providing for fuel propellant
to serve as coolant
[NASA-CASE-XMF-00148] c28 N70-38710
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charge to mass ratio and injecting beam into
electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213
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controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
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changes in density, velocity, and pressure,
thereby maintaining constant mass flow rate of
propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
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deflector plates
[NASA-CASE-XNP-09461] c28 N72-23809
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[NASA-CASE-NPO-11095] c15 N72-25455
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[NASA-CASE-NPO-11377] c15 N73-27406
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[NASA-CASE-LEW-12417-1] c07 N76-22198

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[NASA-CASE-XNP-00214] c15 N70-36908
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[NASA-CASE-LEW-10286-1] c28 N71-28915
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[NASA-CASE-LEW-11188-1] c02 N74-20646
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[NASA-CASE-LEW-11915-1] c35 N76-14431
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deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
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supersonic inlet
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movable carriage, drive motor, and swabbing
motor
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diol solvent and organic wetting and drying
agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
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batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674
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materials
[NASA-CASE-ARC-11057-1] c27 N77-26308

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[NASA-CASE-XNP-04264] c03 N69-21337
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with long wear life and stability in aerospace
environments
[NASA-CASE-XNP-03988] c15 N71-21403
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resins, inorganic salts, and encapsulated
volatile and reactive halogen for fuel fire
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[NASA-CASE-ARC-10098-1] c06 N71-24739
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alkali and alkaline earth metals --- using
radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178

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[NASA-CASE-ARC-10020] c10 N72-17172

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[NASA-CASE-NPO-13540-1] c35 N77-14409

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[NASA-CASE-XLA-00183] c14 N70-40239

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visibility conditions in training pilots in
instrument landing and flight procedures
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pyramidal base for improved pointing
accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
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[NASA-CASE-XNP-01669] c21 N71-23289
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[NASA-CASE-XAC-09489-1] c15 N71-26673
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[NASA-CASE-GSC-10945-1] c21 N72-31637

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[NASA-CASE-XLA-00482] c15 N70-36409
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[NASA-CASE-XLA-00838] c03 N70-36778
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gyro controlled jet reaction system for launch
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[NASA-CASE-XLA-01339] c31 N71-15692
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[NASA-CASE-XNP-09763] c14 N71-20461

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- [NASA-CASE-IGS-02319] c14 N71-22965
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- [NASA-CASE-XLA-00781] c09 N71-22999
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- [NASA-CASE-LEW-10281-1] c14 N72-17327
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- [NASA-CASE-MSC-12372-1] c31 N72-25842
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- [NASA-CASE-IXP-08882] c15 N69-39935
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- [NASA-CASE-ARC-10043-1] c05 N71-11193
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- [NASA-CASE-IGS-02435] c18 N71-22998
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- [NASA-CASE-LEW-10330-1] c09 N72-27226
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- [NASA-CASE-MSC-14339-1] c05 N75-24716
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- [NASA-CASE-ARC-10721-1] c27 N76-22376
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- [NASA-CASE-MSC-14270-1] c27 N76-22377
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- [NASA-CASE-MSC-14270-2] c27 N76-23426
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- [NASA-CASE-XIE-01902] c28 N71-10574
High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
- [NASA-CASE-NPO-13690-1] c27 N76-13294
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- [NASA-CASE-XIE-00388] c28 N70-34788
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- [NASA-CASE-ARC-10761-1] c07 N77-18154
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- [NASA-CASE-GSC-12143-1] c35 N77-32456
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- [NASA-CASE-IXP-01753] c08 N71-22897
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- [NASA-CASE-ARC-10176-1] c15 N72-21464
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- [NASA-CASE-GSC-10835-1] c09 N72-33205
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- [NASA-CASE-MSC-13907-1] c10 N73-26230
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- [NASA-CASE-ARC-10330-1] c09 N73-32112
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- [NASA-CASE-MSC-14240-1] c33 N75-14957
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- [NASA-CASE-XLA-03356] c10 N71-23315
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- [NASA-CASE-XAC-10607] c10 N71-23669
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- [NASA-CASE-IXP-01306-2] c09 N71-24596
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- [NASA-CASE-IGS-03532] c14 N71-17627
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- [NASA-CASE-IXP-08897] c15 N71-17694
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- [NASA-CASE-XLA-04295] c16 N71-24170
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- [NASA-CASE-LAR-10204] c14 N71-27215
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- [NASA-CASE-NPO-11239] c14 N73-12446
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- [NASA-CASE-ARC-10278-1] c14 N73-25463
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- [NASA-CASE-NPO-13604-1] c35 N76-31490
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- [NASA-CASE-LEW-11726-1] c26 N73-26752
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- [NASA-CASE-MPS-20861-1] c18 N73-32437
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- [NASA-CASE-MSC-12139-1] c28 N71-14058
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- [NASA-CASE-IXP-06926] c28 N71-22983
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- [NASA-CASE-NFO-12072] c28 N72-22772
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- [NASA-CASE-NFO-13402-1] c37 N76-18457
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- [NASA-CASE-NPO-13763-1] c37 N77-11398
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- [NASA-CASE-NPO-13671-1] c37 N77-31497

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[NASA-CASE-XMS-00486] c33 N70-33344
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[NASA-CASE-XAC-05462-2] c10 N72-17171
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[NASA-CASE-XNP-00708] c14 N70-35394
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[NASA-CASE-LEW-12955-1] c52 N77-30736
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[NASA-CASE-LEW-12723-1] c52 N77-30737
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[NASA-CASE-HSC-12609-1] c05 N73-32012
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[NASA-CASE-LAR-11711-1] c74 N76-23985
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[NASA-CASE-NPO-10373] c03 N71-18698
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[NASA-CASE-LEW-10518-2] c24 N72-28714
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[NASA-CASE-LEW-10518-1] c24 N72-33681
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[NASA-CASE-LEW-10518-3] c31 N74-10476
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[NASA-CASE-LEW-11390-3] c25 N76-29379
- ION ACCELERATORS**
Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582
- ION BEAMS**
Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
- Dispensing targets for ion beam particle generators
[NASA-CASE-NFO-13112-1] c73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c20 N74-31269
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N77-10148
- ION CHARGE**
Quadrupole mass spectrometer using noise spectrum for ion separation and identification
[NASA-CASE-XNP-04231] c14 N73-32325
- ION CONCENTRATION**
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c27 N74-13270
- ION CURRENTS**
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
- ION CYCLOTRON RADIATION**
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c35 N77-10492
- ION DENSITY (CONCENTRATION)**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
- ION ENGINES**
Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thruster
[NASA-CASE-XLE-07087] c06 N69-39889
High-vacuum condenser tank for testing ion rocket engines
[NASA-CASE-XLE-00168] c11 N70-33278
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
Metal ion rocket engine design
[NASA-CASE-XLE-00342] c28 N70-37980
Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-XLE-00519] c28 N70-41576
Accel and focus electrode design for ion engine with improved efficiency
[NASA-CASE-XNP-02839] c28 N70-41922
Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Electronic cathodes for use in electron bombardment ion thrusters
[NASA-CASE-XLE-04501] c09 N71-23190
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781
Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850

- Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
- Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
- Single grid accelerator system for electron bombardment type ion thruster
[NASA-CASE-XLE-10453-2] c28 N73-27699
- Method of making dishd ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
- Method of constructing dishd ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
- ION EXCHANGE MEMBRANE ELECTROLYTES**
- Inorganic ion exchange membrane electrolytes for fuel cell use
[NASA-CASE-XNP-04264] c03 N69-21337
- Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells
[NASA-CASE-XMS-02063] c03 N71-29044
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport sheeting
[NASA-CASE-LEW-12358-1] c44 N77-18560
- Dual membrane, hollow fiber fuel cell
[NASA-CASE-NPO-13732-1] c44 N77-19581
- ION EXCHANGING**
- Fuel system for thermal nuclear reactor which uses inorganic ion exchanger
[NASA-CASE-LEW-11645-2] c22 N73-28660
- ION EXTRACTION**
- Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c72 N76-27967
- ION IMPLANTATION**
- A complementary DMOS-VNOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
- ION PROBES**
- Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
- ION PROPULSION**
- Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor
[NASA-CASE-XNP-00923] c28 N70-36802
- Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
- Metal ion rocket engine design
[NASA-CASE-XLE-00342] c28 N70-37980
- Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines
[NASA-CASE-XLE-00455] c28 N70-38197
- Accel and focus electrode design for ion engine with improved efficiency
[NASA-CASE-XNP-02839] c28 N70-41922
- Electric rocket engine with electron bombardment ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822
- Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
- Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
- Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
- Radial magnetic field for ion thruster
[NASA-CASE-LEW-10770-1] c28 N72-22770
- Automatic shunting of ion thruster magnetic field when thruster is not operating
[NASA-CASE-LEW-10835-1] c28 N72-22771
- Method of making dishd ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
- Apparatus for forming dishd ion thruster grids
[NASA-CASE-LEW-11694-2] c37 N76-14461
- Anode for ion thruster
[NASA-CASE-LEW-12048-1] c20 N77-20162
- ION PUMPS**
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406
- ION SOURCES**
- Apertured electrode focusing system for ion sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
- Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
- Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
- Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
- Development and characteristics of apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c14 N72-29464
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c20 N74-31269
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c37 N75-19684
- ION TRAPS (INSTRUMENTATION)**
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
- IONIZATION CHAMBERS**
- Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991
- Electric rocket engine with electron bombardment ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822
- Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-EBC-10044-1] c14 N71-27090
- Development and characteristics of apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c14 N72-29464
- IONIZATION GAGES**
- Ionization vacuum gage
[NASA-CASE-XNP-00646] c14 N70-35666
- Ionization control system design for monitoring separately located ion gage pressures on vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090
- Development and characteristics of apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c14 N72-29464
- Ionization gage for measuring ultrahigh vacuum levels
[NASA-CASE-XLA-05087] c14 N73-30391
- IONIZATION POTENTIALS**
- Electrodes having array of small surfaces for field ionization
[NASA-CASE-EBC-10013] c09 N71-26678
- IONIZED GASES**
- Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884
- Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641
- Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c72 N76-27967
- IONIZERS**
- Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control
[NASA-CASE-HSC-10960-1] c03 N71-24718
- Method of making dishd ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
- IONIZING RADIATION**
- High voltage cable for use in high intensity ionizing radiation fields

[NASA-CASE-XNP-00738] c09 N70-38201
Reinforced polyquinoxaline gasket and method of
preparing the same --- resistant to ionizing
radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c37 N74-18126

IONOSPHERE

Lightweight, rugged, inexpensive satellite
battery for producing electrical power from
ionosphere using electrodes with different
contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408

IONS

Micrometeoroid analyzer using arrays of
interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477

IRISES (MECHANICAL APERTURES)

Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
Development of thin film microwave iris
installed in microwave waveguide transverse to
flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172

IRON ALLOYS

Tantalum modified ferritic iron base alloys ---
for use in high temperature environments
[NASA-CASE-LFW-12095-1] c26 N76-17233

IRRADIATION

Solar sensor with coarse and fine sensing
elements for matching preirradiated cells on
degradation rates
[NASA-CASE-XLA-01584] c14 N71-23269
Apparatus for obtaining isotropic irradiation on
film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
Production of pure metals
[NASA-CASE-LFW-10906-1] c25 N74-30502

IRRIGATION

Solar-powered pump
[NASA-CASE-NFO-13567-1] c44 N76-29701

ISOLATORS

Internal labyrinth and shield structure to
improve electrical isolation of propellant
feed source from ion thruster
[NASA-CASE-LFW-10210-1] c28 N71-26781

ISOPROPYL ALCOHOL

Preparation of fluorinated polyethers from
2-hydro-perhaloisopropyl alcohols
[NASA-CASE-MFS-11492] c06 N73-30102

ISOTHERMAL LAYERS

Double-wall isothermal cylinder containing heat
transfer fluid thermal reservoir as spacecraft
insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353

ISOTHERMAL PROCESSES

General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c09 N77-12070
Opto-mechanical subsystem with temperature
compensation through isothermal design
[NASA-CASE-GSC-12059-1] c35 N77-27366

ISOTOPE SEPARATION

Isotope separation using metallic vapor lasers
[NASA-CASE-NFO-13550-1] c36 N77-26477

J

JET AIRCRAFT

Deflector for preventing objects from entering
nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788

JET AIRCRAFT NOISE

Upper surface, external flow, jet-augmented flap
configuration for high wing jet aircraft for
noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
Development of aircraft configuration for
reduction of jet aircraft noise by exhausting
engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Noise suppressor --- for turbofan engine by
incorporating annular acoustically porous
elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c07 N74-33218
Instrumentation for measurement of aircraft
noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036

JET AMPLIFIERS

Fluid jet amplifier with fluid from jet nozzle
deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741

JET BLAST EFFECTS

Separation mechanism for use between stages of
multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874

JET CONTROL

Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938

JET ENGINES

Absorptive, nonreflecting barrier mounted
between closely spaced jet engines on
supersonic aircraft, for preventing shock wave
interference
[NASA-CASE-XLA-02865] c28 N71-15563
Development of thrust dynamometer for measuring
performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429
Afterburner-equipped jet engine nacelle with
slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
Process for welding compressor and turbine
blades to rotors and discs of jet engines
[NASA-CASE-LFW-10533-1] c15 N73-28515
Variably positioned guide vanes for aerodynamic
choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
Stator rotor tools
[NASA-CASE-MSC-16000-1] c07 N77-13062
The engine air intake system
[NASA-CASE-ARC-10761-1] c07 N77-18154

JET EXHAUST

Development of aircraft configuration for
reduction of jet aircraft noise by exhausting
engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Jet exhaust noise suppressor
[NASA-CASE-LFW-11286-1] c07 N74-27490
Reduction of nitric oxide emissions from a
combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260

JET FLAPS

Upper surface, external flow, jet-augmented flap
configuration for high wing jet aircraft for
noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332

JET FLOW

Two-phase flow system with discrete, impinging
two-phase jets
[NASA-CASE-NFO-11556] c12 N72-25292

JET MIXING FLOW

Fuel injection system for maximum combustion
efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199

JET NOZZLES

Fluid jet amplifier with fluid from jet nozzle
deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Thrust and attitude control apparatus using jet
nozzle in movable canard surface or fin
configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c35 N74-15093

JET THRUST

System for aerodynamic control of rocket
vehicles by secondary injection of fluid into
nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
Drive mechanism for operating reactance attitude
control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583

JETTISON SYSTEMS

Describing assembly for opening stabilizing and
decelerating flaps of flight capsules used in
space research
[NASA-CASE-XNP-03169] c31 N71-15675
System for deploying and ejecting releasable
clamshell fairing sections from spinning

sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853

JIGS
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554

JOINTS (ANATOMY)
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11008-1] c54 N77-30749

JOINTS (JUNCTIONS)
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XNP-01452] c15 N70-41371
Design and development of flexible joint for pressure suits
[NASA-CASE-XMS-09636] c05 N71-12344
Elbow forming in jacketed pipes while maintaining separation between core shape and jacket pipes
[NASA-CASE-XNP-10475] c15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XNP-05114-2] c15 N71-26148
Universal joints for connecting two displaced shafts or members
[NASA-CASE-NPO-10646] c15 N71-28467
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c37 N74-18128
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c37 N74-23064
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c37 N75-26372
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c37 N76-14460
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c37 N76-28554
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c54 N77-15641

JOSEPHSON JUNCTIONS
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c33 N75-31332

JOULE-THOMSON EFFECT
Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190

JOURNAL BEARINGS
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Journal air bearing with cylindrical cup designed to ride on shaft
[NASA-CASE-MFS-20423] c15 N72-11388

Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c37 N74-21061
Journal Bearings
[NASA-CASE-LEW-11076-2] c37 N74-32921
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c37 N76-15461

JUNCTION DIODES
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-MFS-20407] c09 N73-19235
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c33 N77-21314

JUNCTION TRANSISTORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c09 N69-24318
Miniature piezoelectric semiconductor transducer with in situ stress coupling
[NASA-CASE-ERC-10087-2] c14 N72-31446
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c37 N75-26372

K

KIDNEY DISEASES
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236

KINETIC ENERGY
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861

KINETIC FRICTION
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995

KINETICS
Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477

L

LABORATORY EQUIPMENT
Design of mechanical device for stirring several test tubes simultaneously
[NASA-CASE-XAC-06956] c15 N71-21177
Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
Apparatus and process for volumetrically dispensing reagent quantities of volatile chemicals for small batch reactions
[NASA-CASE-NPO-10070] c15 N71-27372
Development of variable angle device for positioning test tubes to permit optimum drying of culture medium
[NASA-CASE-LAR-10507-1] c11 N72-25284
Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025
Apparatus for mixing two or more liquids under zero gravity conditions
[NASA-CASE-LAR-10195-1] c15 N73-19458
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c51 N74-15778
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c51 N77-27677

LAMINAR FLOW
Laminar flow of liquid coolants in rocket engines
[NASA-CASE-NPO-10122] c12 N71-17631

LAMINATES
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit boards
[NASA-CASE-MFS-20408] c18 N73-12604

- Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASP-LAR-10788-1] c31 N73-20880
- Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21368-1] c37 N74-18126
- Method of laminating structural members
[NASA-CASE-XIA-11028-1] c24 N74-27035
- Lightweight electrically powered flexible thermal laminate --- made of metal fibers
[NASA-CASE-MSC-12662-1] c24 N75-16635
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c24 N76-26286
- Leading edge protection for composite blades
[NASA-CASE-LFW-12550-1] c24 N77-19170
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c24 N77-19173
- Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179
- Hybrid composite laminate structures
[NASA-CASE-LFW-12118-1] c24 N77-27188
- LANDING AIDS**
- Electro-optical attitude sensing device for landing approach of flight vehicle
[NASA-CASE-XMS-01994-1] c14 N72-17326
- Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619
- LANDING GEAR**
- Pivotal shock absorbing assembly for use as load distributing portion in landing gear systems of space vehicles
[NASA-CASE-XMF-03856] c31 N70-34159
- Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
- Landing pad assembly for aerospace vehicles
[NASA-CASE-XMF-02853] c31 N70-36654
- Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XIA-01583] c02 N70-36825
- Spacecraft shock absorbing system for soft landings
[NASA-CASE-XMF-02108] c31 N70-36845
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System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110

Monitoring and recording lightning strokes in predetermined area
[NASA-CASE-KSC-10728-1] c14 N73-32319

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c33 N75-26246

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c33 N77-21319

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320

LIMITER CIRCUITS

Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084

Circuits for amplitude limiting of random noise inputs
[NASA-CASE-NFO-10169] c10 N71-24844

Velocity limiting safety system for motor driven research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895

Low level signal limiter
[NASA-CASE-XLE-04791] c32 N74-22096

Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333

LINEAR ACCELERATORS

Linear accelerator frequency control system
[NASA-CASE-XGS-05441] c10 N71-22962

LINEAR RECEIVERS

Antenna array at focal plane of reflector with coupling network for beam switching
[NASA-CASE-GSC-10220-1] c07 N71-27233

LINEAR SYSTEMS

Linear three-tap feedback shift register
[NASA-CASE-NFO-10351] c08 N71-12503

Family of m-ary linear feedback shift register with binary logic
[NASA-CASE-NFO-11868] c10 N73-20254

LINEARITY

Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982

Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045

LINKAGES

Development of collapsible nozzle extension for rocket engines
[NASA-CASE-NFS-11497] c28 N71-16224

Design and construction of mechanical probe for determining if object is properly secured
[NASA-CASE-NFS-20760] c14 N72-33377

LIQUEFACTION

Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640

Improved tissue macerating instrument --- ophthalmic liquefaction pump
[NASA-CASE-LEW-12668-1] c52 N76-23837

LIQUID BEARINGS

Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359

LIQUID COOLING

Water cooled contactors for holding rotating carbon arc anode
[NASA-CASE-XMS-03700] c15 N69-24266

External device for liquid spray cooling of gas turbine blades
[NASA-CASE-XLE-00037] c28 N70-33372

Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss
[NASA-CASE-XNP-01951] c09 N70-41929

Laminar flow of liquid coolants in rocket engines
[NASA-CASE-NFO-10122] c12 N71-17631

Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439

Electric power system with circulatory liquid coolant cooling system
[NASA-CASE-NFS-14114-2] c09 N71-24807

Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-NFS-14114] c33 N71-27862

Apparatus for liquid spray cooling of turbine blades
[NASA-CASE-XLE-00027] c33 N71-29152

Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098

Automatic temperature control for liquid cooled space suit
[NASA-CASE-ARC-10599-1] c05 N73-26071

Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c34 N76-17317

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c37 N76-20486

Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c52 N77-14736

LIQUID CRYSTALS

Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410

Input signal measurement using liquid crystalline elements
[NASA-CASE-ERC-10275] c26 N72-25680

Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118

LIQUID FILLED SHELLS

Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-XNP-00610] c28 N70-36910

Design and development of fluid sample collector
[NASA-CASE-XMS-06767-1] c14 N71-20435

Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835

Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265

LIQUID FLOW

Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988

Liquid junction for glass electrode or pH meters
[NASA-CASE-NFO-10682] c15 N70-34699

Actuator using compressed gas as driving force to control valve handling large liquid flows
[NASA-CASE-XHQ-01208] c15 N70-35409

Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492

Positive displacement flowmeter for measuring extremely low flows of fluid with self calibrating features
[NASA-CASE-XNP-02822] c14 N70-41994

High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074

Carrier liquid system containing bodies of ablative material
[NASA-CASE-LEW-10359-2] c33 N73-25952

Zero gravity liquid transfer device, using spiral shaped screen
[NASA-CASE-KSC-10626] c14 N73-27378

System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c34 N76-27517

LIQUID HELIUM

Heat operated cryogenic electrical generator
[NASA-CASE-NFO-13303-1] c20 N75-24837

Helium refrigerator
[NASA-CASE-NFO-13435-1] c31 N76-14284

Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NFO-13459-1] c31 N77-10229

Multistation refrigeration system
[NASA-CASE-NFO-13839-1] c31 N77-15219

LIQUID HYDROGEN

Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft
[NASA-CASE-XNP-05046] c33 N71-28892

Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing

- radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c37 N74-18126
- LIQUID INJECTION**
Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
Propellant injection assembly having individually removable and replaceable nozzles for liquid fueled rocket engines
[NASA-CASE-IMP-00968] c28 N71-15660
- LIQUID LASERS**
Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
- LIQUID LEVELS**
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
- LIQUID METALS**
Magnetohydrodynamic generator for fixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-IMP-00644] c03 N70-36803
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-MFS-14114] c33 N71-27862
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-IMP-08881] c17 N71-28747
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NFC-10831] c33 N72-20915
U shaped heated tube for distillation and purification of liquid metals
[NASA-CASE-IMP-08124-2] c06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c35 N74-21018
Liquid metal slip ring
[NASA-CASE-LEW-12277-1] c33 N76-28472
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c33 N77-26385
- LIQUID NITROGEN**
Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
- LIQUID OXYGEN**
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-IMP-02221] c18 N71-27170
Flame-resistant liquid oxygen compatible neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267
- LIQUID PHASES**
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-IMP-07659] c06 N71-22975
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393
- LIQUID PROPELLANT ROCKET ENGINES**
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
- Attitude and propellant flow control system for liquid propellant rocket vehicles
[NASA-CASE-IMP-00185] c21 N70-34539
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-IMP-00148] c28 N70-38710
Collapsible auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-IMP-01390] c28 N70-41275
Rocket propellant injector with porous faceplate for rocket engine combustion chamber
[NASA-CASE-LEW-11071-1] c27 N73-27695
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
- LIQUID ROCKET PROPELLANTS**
Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-IMP-00610] c28 N70-36910
Igniter capsule for chemical ignition of liquid rocket propellants
[NASA-CASE-XLE-00323] c28 N70-38505
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
Compact high pressure filter for rocket fuel lines
[NASA-CASE-IMP-00732] c28 N70-41447
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-IMP-01899] c31 N70-41948
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-IMP-09702] c15 N71-17654
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-IMP-01747] c15 N71-23024
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-IMP-08881] c17 N71-28747
Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134
- LIQUID SLOSHING**
Slosh damping method for liquid rocket propellant tanks
[NASA-CASE-IMP-00658] c12 N70-38997
Flexible ring slosh damping baffle for spacecraft fuel tank
[NASA-CASE-LAR-10317-1] c32 N71-16103
Submerged fuel tank baffles to prevent sloshing in liquid propellant rocket flight
[NASA-CASE-XLA-04605] c32 N71-16106
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
- LIQUID-GAS MIXTURES**
Liquid-gas separator adapted for use in zero gravity environment - drawings

[NASA-CASE-XMS-01624] c15 N70-40062
 Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions
 [NASA-CASE-XMS-01492] c05 N70-41297
 Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
 [NASA-CASE-XLE-01449] c15 N70-41646
 Liquid-gaseous centrifugal separator for weightlessness environment
 [NASA-CASE-XLA-00415] c15 N71-16079
 Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
 [NASA-CASE-XMF-04042] c15 N71-23023

LIQUID-VAPOR INTERFACES

Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
 [NASA-CASE-XLE-00586] c15 N71-15968
 Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
 [NASA-CASE-XNP-02862-1] c15 N71-26294
 Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
 [NASA-CASE-MFS-11204] c14 N71-29134

LIQUIDS

Liquid-gas separator adapted for use in zero gravity environment - drawings
 [NASA-CASE-XMS-01624] c15 N70-40062
 Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
 [NASA-CASE-MPO-10037] c09 N71-19610
 Purification apparatus for vaporization and fractional distillation of liquids
 [NASA-CASE-XNP-08124] c15 N71-27184
 Quantitative liquid measurements in container by resonant frequencies
 [NASA-CASE-XNP-02500] c18 N71-27397
 Resonant infrasonic gauging device for measuring liquid quantity in closed bladderless reservoir
 [NASA-CASE-MSC-11847-1] c14 N72-11363
 Ablative system with liquid carrying ablative material bodies and forming self-replacing ablative surface
 [NASA-CASE-LEW-10359] c33 N72-25911
 Pressurized tank for feeding liquid waste into processing equipment
 [NASA-CASE-LAR-10365-1] c05 N72-27102
 Apparatus for mixing two or more liquids under zero gravity conditions
 [NASA-CASE-LAR-10195-1] c15 N73-19458
 Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
 [NASA-CASE-ARC-10441-1] c35 N74-15126
 Method and device for detection of surface discontinuities or defects
 [NASA-CASE-MSC-14187-1] c35 N74-32879
 Automatic liquid inventory collecting and dispensing unit
 [NASA-CASE-LAR-11071-1] c35 N75-19611
 A 2 degree/90 degree laboratory scattering photometer
 [NASA-CASE-GSC-12088-1] c35 N76-17369
 Thermal energy storage system --- operating on superheating of liquids
 [NASA-CASE-MFS-23167-1] c44 N76-31667

LITHIUM COMPOUNDS

Utilization of lithium p-lithiophenoxide to prepare star polymers
 [NASA-CASE-MFO-10998-1] c06 N73-32029

LOAD DISTRIBUTION (FORCES)

Force measuring instrument for structural members, particularly fastening bolts or studs
 [NASA-CASE-XNP-00456] c14 N70-34705
 Multiple Belleville spring assembly with even load distribution
 [NASA-CASE-XNP-00840] c15 N70-38225
 Device for use in loading tension members --- characterized by elongated elastic body
 [NASA-CASE-MFS-21488-1] c14 N75-24794
 Pneumatic load compensating or controlling system
 [NASA-CASE-ARC-10907-1] c37 N75-32465

LOAD TESTING MACHINES

Load cell protection device using spring-loaded breakaway mechanism
 [NASA-CASE-XMS-06782] c32 N71-15974
 Development of device for transferring load from load cell to bypass mechanism
 [NASA-CASE-XMS-06329-1] c15 N71-20441
 Method and apparatus for tensile testing of metal foil
 [NASA-CASE-LAR-10208-1] c35 N76-18400

LOAD TESTS

Differential pressure cell insensitive to changes in ambient temperature and extreme overload
 [NASA-CASE-XAC-00042] c14 N70-34816

LOADING OPERATIONS

Air bearings for near frictionless transfer of loads from one body to another
 [NASA-CASE-XNP-01887] c15 N71-10617

LOADS (FORCES)

Device for handling heavy loads by distributing forces
 [NASA-CASE-XNP-04969] c11 N69-27466
 Two plane balance for simultaneous measurements of multiple forces
 [NASA-CASE-XAC-00073] c14 N70-34813
 Improving load capacity and fatigue life of rolling element systems in rockets and missiles
 [NASA-CASE-XLE-02999] c15 N71-16052
 Development of device for transferring load from load cell to bypass mechanism
 [NASA-CASE-XMS-06329-1] c15 N71-20441
 Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
 [NASA-CASE-XMS-05890] c09 N71-23191
 Solid state force measuring electromechanical transducers made of piezoresistive materials
 [NASA-CASE-ERC-10088] c26 N71-25490
 Turn on current transient limiter for controlling peak current flow in high capacity load
 [NASA-CASE-GSC-10413] c10 N71-26531
 Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
 [NASA-CASE-GSC-10065-1] c10 N71-27136
 Force balanced throttle valve for fuel control in rocket engines
 [NASA-CASE-MFO-10808] c15 N71-27432
 Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
 [NASA-CASE-XNP-01848] c15 N71-28959
 Air bearing for use in exterior environment for moving heavy loads
 [NASA-CASE-WIP-10002] c15 N72-17451
 Measuring device for bearing preload using spring washers
 [NASA-CASE-MFS-20434] c11 N72-25288
 Variable direction force coupler for transmitting force along selectable curve path
 [NASA-CASE-MFS-20317] c15 N73-13463
 Versatile ergometer with work load control
 [NASA-CASE-MFS-21109-1] c05 N73-27941
 Three-axis adjustable loading structure
 [NASA-CASE-FRC-10051-1] c35 N74-13129
 G-load measuring and indicator apparatus --- for aircraft
 [NASA-CASE-ARC-10806] c06 N74-27872
 Spring operated accelerator and constant force spring mechanism therefor
 [NASA-CASE-ARC-10898-1] c35 N77-18417
 Penetrometer --- for determining load bearing characteristics of inclined surfaces
 [NASA-CASE-MFO-11103-1] c35 N77-27367
 Load regulating latch
 [NASA-CASE-MSC-19535-1] c37 N77-32499

LOCATES SYSTEM

System for locating lightning strokes by coordination of directional antenna signals
 [NASA-CASE-KSC-10729-1] c09 N73-32110
 Position determination systems --- using orbital antenna scan of celestial bodies
 [NASA-CASE-MSC-12593-1] c17 N76-21250

LOCKING

Releasable coupling device designed to receive and retain matching ends of electrical connectors

- [NASA-CASE-XMS-07846-1] c09 N69-21927
- LOCKS (FASTENERS)**
- Ball locking device which releases in response to small forces when subjected to high axial loads
- [NASA-CASE-XMF-01371] c15 N70-41829
- Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
- [NASA-CASE-GSC-10556-1] c31 N71-26537
- Locking device for retaining turbine rotor blades on turbine wheel
- [NASA-CASE-XNP-00816] c28 N71-28928
- Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
- [NASA-CASE-LAR-10686] c14 N71-28935
- Design of quick release locking pin for joining two or more load-carrying structural members
- [NASA-CASE-MFS-18495] c15 N72-11385
- Locking mechanism for orthopedic braces
- [NASA-CASE-GSC-12082-1] c54 N76-22914
- Locking mechanism for orthopedic braces
- [NASA-CASE-GSC-12082-2] c52 N77-27694
- LOCOMOTION**
- Jet shoes for space locomotion
- [NASA-CASE-XLA-08491] c05 N69-21380
- Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
- [NASA-CASE-XMS-02977] c11 N71-10746
- Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
- [NASA-CASE-MSC-12397-1] c05 N72-25119
- LOGARITHMIC RECEIVERS**
- Logarithmic circuit with wide dynamic range
- [NASA-CASE-GSC-12145-1] c33 N77-19319
- LOGARITHMS**
- Technique for deriving logarithm of input signal using exponentially varying electric signal inversely
- [NASA-CASE-ERC-10267] c09 N72-23173
- LOGIC CIRCUITS**
- Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
- [NASA-CASE-XAC-10072] c09 N70-11148
- Counter-divisor circuit for accuracy and reliability in binary circuits
- [NASA-CASE-XNP-00421] c09 N70-34502
- Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades
- [NASA-CASE-XNP-00432] c08 N70-35423
- Conversion system for increasing resolution of analog to digital converters
- [NASA-CASE-XAC-00404] c08 N70-40125
- Data processor having multiple sections activated at different times by selective power coupling to sections
- [NASA-CASE-XGS-04767] c08 N71-12494
- Binary sequence detector with few memory elements and minimized logic circuit complexity
- [NASA-CASE-XNP-05415] c08 N71-12505
- Bistable multivibrator circuits operating at high speed and low power dissipation
- [NASA-CASE-XGS-00823] c10 N71-15910
- Logic AND gate for fluid circuits
- [NASA-CASE-XLA-07391] c12 N71-17579
- Logic circuit to ripple add and subtract binary counters for spaceborne computers
- [NASA-CASE-XGS-04766] c08 N71-18602
- Constructing Exclusive-Or digital logic circuit in single module
- [NASA-CASE-XLA-07732] c08 N71-18751
- Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
- [NASA-CASE-GSC-10366-1] c10 N71-18772
- Serial digital decoder design with square circuit matrix and serial memory storage units
- [NASA-CASE-NPO-10150] c08 N71-24650
- Binary to decimal decoder logic circuit design with feedback control and display device
- [NASA-CASE-XKS-06167] c08 N71-24890
- Design and development of multistage current steering switch with inductively coupled magnetic cores
- [NASA-CASE-XNP-08567] c09 N71-26000
- Logic circuit for generating multibit binary code word in parallel
- [NASA-CASE-XNP-04623] c10 N71-26103
- Adaptive signal generating system and logic circuits for satellite television systems
- [NASA-CASE-GSC-11367] c10 N71-26374
- Transistorized switching logic circuits with tunnel diodes
- [NASA-CASE-GSC-10878-1] c10 N72-22236
- Logical function and circuit generator
- [NASA-CASE-XLA-05099] c09 N73-13209
- A synchronous binary array divider
- [NASA-CASE-ERC-10180-1] c60 N74-20836
- Four phase logic systems --- including integrated microcircuits
- [NASA-CASE-MSC-14240-1] c33 N75-14957
- An interleaving device --- for computer logic circuits used in optical data processing
- [NASA-CASE-GSC-12111-2] c60 N77-31800
- LOGICAL ELEMENTS**
- An interleaving device --- for computer logic circuits used in optical data processing
- [NASA-CASE-GSC-12111-2] c60 N77-31800
- LONGITUDINAL CONTROL**
- Three-axis controller operated by hand-wrist motion for yaw, pitch, and roll control
- [NASA-CASE-XAC-01404] c05 N70-41581
- LOOP ANTENNAS**
- Collapsible, space erectable loop antenna system for space vehicle
- [NASA-CASE-XNP-00437] c07 N70-40202
- Automatic carrier acquisition system for phase locked loop receiver
- [NASA-CASE-NPO-11628-1] c07 N73-30113
- LOOPS**
- Tape cartridge with high capacity storage of endless-loop magnetic tape
- [NASA-CASE-XGS-00769] c14 N70-41647
- Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
- [NASA-CASE-XGS-01223] c07 N71-10609
- Filter for third order phase locked loops in signal receivers
- [NASA-CASE-NPO-11941-1] c10 N73-27171
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
- [NASA-CASE-ARC-10516-1] c70 N74-21300
- Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
- [NASA-CASE-LAR-10168-1] c33 N74-22865
- Closed loop spray cooling apparatus
- [NASA-CASE-LEW-11981-2] c34 N77-32434
- LOW ASPECT RATIO**
- Aerospace configuration with low and high aspect ratio variability for high and low speed flight
- [NASA-CASE-XLA-00142] c02 N70-33286
- Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
- [NASA-CASE-XLA-00806] c02 N70-34858
- LOW COST**
- Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
- [NASA-CASE-GSC-12022-2] c44 N76-26695
- Fabrication of polycrystalline solar cells on low-cost substrates
- [NASA-CASE-GSC-12022-1] c44 N76-28635
- Low cost solar energy collection system
- [NASA-CASE-NPO-13579-3] c44 N77-20566
- LOW DENSITY MATERIALS**
- Method and photodetector device for locating abnormal voids in low density materials
- [NASA-CASE-MFS-20044] c14 N71-28993
- Intumescent composition, foamed product prepared therewith and process for making same
- [NASA-CASE-ARC-10304-2] c27 N74-27037
- Mixing insert for foam dispensing apparatus
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[NASA-CASE-LAR-11617-2] c35 N77-17430
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[NASA-CASE-LAR-11387-2] c04 N77-19056

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[NASA-CASE-XNP-09771] c09 N71-24841

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Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-RSC-11030-1] c52 N77-25772

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including lens and illuminator
[NASA-CASE-XMF-03844-1] c14 N71-26474
Passive type, magnifying scratch gage, force
transducer
[NASA-CASE-LAR-10496-1] c14 N72-22437

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Torque meter for determining magnitude of torque
generated by interaction of magnetic dipole
between test specimen and ambient magnetic field
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points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
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[NASA-CASE-MSC-12357] c15 N73-12489
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during takeoff
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[NASA-CASE-XIA-00304] c27 N70-34783
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gored inflatable spacecraft
[NASA-CASE-XIA-04143] c15 N71-17687
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having reliable high altitude capabilities,
long shelf life, and capable of firing with
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[NASA-CASE-XIA-04126] c28 N71-26779

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[NASA-CASE-MSC-14245-1] c18 N75-27041
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[NASA-CASE-NFO-13386-1] c54 N75-27758
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[NASA-CASE-MFS-22022-1] c37 N76-15460
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[NASA-CASE-ARC-10756-1] c54 N77-32721
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[NASA-CASE-XIA-00678] c31 N70-34296
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continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
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[NASA-CASE-XLA-00241] c31 N70-37986
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[NASA-CASE-KSC-10242] c15 N72-23497
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[NASA-CASE-MSC-12357] c15 N73-12489
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[NASA-CASE-XNP-03459] c15 N71-21078
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[NASA-CASE-XLA-00137] c15 N70-33180
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[NASA-CASE-LEW-11860-1] c37 N76-18458
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[NASA-CASE-MFS-14971] c15 N71-24984
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[NASA-CASE-XLE-06461] c17 N72-22530
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- Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
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[NASA-CASE-XLA-05906] c31 N71-16221
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[NASA-CASE-XLE-00209] c22 N73-32528
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[NASA-CASE-LEW-10393-1] c17 N71-15468
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[NASA-CASE-LEW-10794-1] c06 N72-17093
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[NASA-CASE-XLE-06461] c17 N72-22530
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[NASA-CASE-LAR-10170-1] c37 N74-11301
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[NASA-CASE-LAR-11211-1] c37 N75-12326
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[NASA-CASE-XGS-01475] c03 N71-11058
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[NASA-CASE-XGS-04175] c15 N71-18579
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[NASA-CASE-XLA-08645] c15 N69-21465
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[NASA-CASE-XNP-04148] c17 N71-24830
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[NASA-CASE-XLA-06199] c15 N71-24875
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[NASA-CASE-INP-09469] c24 N71-25555
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[NASA-CASE-XNP-01263-2] c15 N71-26312
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[NASA-CASE-XLE-00035] c33 N71-29151
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[NASA-CASE-WFO-10617-1] c35 N74-22095
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[NASA-CASE-XLE-02083] c03 N69-39983
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[NASA-CASE-XLE-00010] c15 N70-33382
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[NASA-CASE-XNP-00392] c15 N70-34814
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[NASA-CASE-XNP-05114] c15 N71-17650
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[NASA-CASE-XLE-01092] c15 N71-22797
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[NASA-CASE-XNP-03511] c15 N71-22799
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[NASA-CASE-XLE-00020] c15 N70-33226
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[NASA-CASE-XLE-08511] c18 N71-23710
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[NASA-CASE-XNP-05297] c15 N71-23811
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[NASA-CASE-XLA-05966] c15 N72-12408
Metal plating process employing spraying of metallic powder/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-WFO-11758-1] c31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593

METEORITE COLLISIONS

Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-WFO-12127-1] c91 N74-13130

METEORITES

Method for making pressurized meteoroid penetration detector panels
[NASA-CASE-XLA-08916] c15 N71-29018

METEORITIC DAMAGE

Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797

METEOROID HAZARDS

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367

METEOROID PROTECTION

Development and characteristics of protective coatings for spacecraft
[NASA-CASE-INP-02507] c31 N71-17679
Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880

METEOROIDS

Cameras for photographing meteors in selected sky area
[NASA-CASE-LAR-10226-1] c14 N73-19419

- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c91 N76-30131
- METROLOGICAL BALLOONS**
Aerodynamically stable meteorological balloon
using surface roughness effect
[NASA-CASE-MXP-04163] c02 N71-23007
- METHANE**
High temperature gas lubricant consisting of two
fluoro-bromo-methanes
[NASA-CASE-XLE-00353] c18 N70-39897
- MICHELSON INTERFEROMETERS**
Michelson interferometer with photodetector for
optical direction sensing
[NASA-CASE-NPO-10320] c14 N71-17655
Servo system for retroreflector of Michelson
interferometer
[NASA-CASE-NFO-10300] c14 N71-17662
Computerized optical system for producing
multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c35 N76-14433
- MICROBALANCES**
Null-type vacuum microbalance for measuring
minute mechanical displacements
[NASA-CASE-XAC-00472] c15 N70-40180
- MICROBIOLOGY**
Development of variable angle device for
positioning test tubes to permit optimum
drying of culture medium
[NASA-CASE-LAR-10507-1] c11 N72-25284
Apparatus for microbiological sampling ---
including automatic swabbing
[NASA-CASE-LAR-11069-1] c35 N75-12272
Automatic inoculating apparatus --- includes
movable carriage, drive motor, and swabbing
motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c35 N75-27330
Application of luciferase assay for ATP to
antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c51 N77-22794
- MICROELECTRONICS**
Separation of semiconductor wafer into chips
bounded by scribe lines
[NASA-CASE-ERC-10138] c26 N71-14354
Vibrophonocardiograph comprising low weight and
small volume piezoelectric microphone with
amplifier having high input impedance for high
sensitivity and low frequency response
[NASA-CASE-XPR-07172] c05 N71-27234
Electrical connections for thin film hybrid
microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
Method for coating through-holes in ceramic
substrates used in fabricating miniaturized
electronic circuits
[NASA-CASE-MXP-05999] c15 N71-29032
Precision surface cutter for screen circuit
negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
Material compositions and processes for
developing dielectric thick films used in
microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762
Active tuned circuits for microelectronic
construction
[NASA-CASE-GSC-11340-1] c10 N72-33230
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084
- MICROFILMS**
Apparatus for semiautomatic inspection of
microfilmed documents for density, resolution,
size, and position
[NASA-CASE-MFS-20240] c14 N71-26788
- MICROMETEORITES**
Method of and device for determining the
characteristics and flux distribution of
micrometeorites --- scanning puncture holes in
sheet material with photoelectric cell
[NASA-CASE-NFO-12127-1] c91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c35 N76-15433
- MICROMETEORIDS**
Particle detector for measuring micrometeoroid
velocity in space
[NASA-CASE-XIA-00495] c14 N70-41332
- Piezoelectric transducer for detecting and
measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
Development of large area micrometeoroid impact
detector panels
[NASA-CASE-XLA-05906] c31 N71-16221
Rotary bead dropper and selector for testing
micrometeorite transducers
[NASA-CASE-IGS-03304] c09 N71-22988
Measuring micrometeoroid depth of penetration
into various materials
[NASA-CASE-XLA-00941] c14 N71-23240
Structure of fabric layers for micrometeoroid
protection garment with capability for
eliminating heat shorts for use in
manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Micrometeoroid analyzer using arrays of
interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
Cold cathode discharge tube with pressurized gas
cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-32327
Deployable pressurized cell structure for a
micrometeoroid detector
[NASA-CASE-LAR-10295-1] c35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405
- MICROMINIATURIZATION**
Miniaturized radiometer for detecting low level
thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
- MICROORGANISMS**
Development of bacteriostatic conformal coating
and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
Portable vacuum probe surface sampler for
sampling large surface areas with relatively
light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395
Measurement of gas production of microorganisms
--- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
Determination of antimicrobial susceptibilities
of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797
- MICROPARTICLES**
Micropacked column for rapid chromatographic
analysis using low gas flow rates
[NASA-CASE-MXP-04816] c06 N69-39936
- MICROPHONES**
Audio signal processing system for noise surge
elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
Vibrophonocardiograph comprising low weight and
small volume piezoelectric microphone with
amplifier having high input impedance for high
sensitivity and low frequency response
[NASA-CASE-XPR-07172] c05 N71-27234
Development of wind tunnel microphone structure
to minimize effects of vibrations and
eliminate unwanted signals in microphone output
[NASA-CASE-MXP-00250] c11 N71-28779
Adjustable frequency response microphone
[NASA-CASE-LAR-11170-1] c32 N74-12843
- MICROPROCESSORS**
Microcomputerized electric field meter
diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343
- MICROSCOPES**
Absolute focus locking device for microscopes to
maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
- MICROSTRIP TRANSMISSION LINES**
Thin conformal antenna array for microwave power
conversion
[NASA-CASE-NFO-13886-1] c32 N77-11269
- MICROSTRUCTURE**
Production of high strength refractory compounds
and microconstituents into refractory metal
matrix
[NASA-CASE-XLE-03940] c18 N71-26153
Development of procedure for improved
distribution of refractory compounds and
micro-constituents in refractory metal matrix

- [NASA-CASE-XLE-03940-2] c17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
- [NASA-CASE-LEW-11388-2] c37 N74-21055
Method of determining band quality of power transistors attached to substrates --- X ray inspection of junction microstructure
- [NASA-CASE-MFS-21931-1] c37 N75-26372
MICROTHRUST
Electrostatic microthrust propulsion system with annular slit colloid thruster
- [NASA-CASE-GSC-10709-1] c28 N71-25213
Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
- [NASA-CASE-GSC-10640-1] c28 N72-18766
MICROWAVE AMPLIFIERS
Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
- [NASA-CASE-INP-00449] c14 N70-35220
MICROWAVE ANTENNAS
Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
- [NASA-CASE-MFS-20333] c09 N71-13486
Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
- [NASA-CASE-INP-01735] c07 N71-22750
Microwave caindirectional antenna for use on spacecraft
- [NASA-CASE-XLA-03114] c09 N71-22888
Portable equipment for validating C band launch pad antennas and transmission lines used for spacecraft checkout
- [NASA-CASE-XKS-10543] c07 N71-26292
Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
- [NASA-CASE-NPO-11264] c07 N72-25174
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
- [NASA-CASE-LAR-10163-1] c09 N72-25247
Characteristics of microwave antenna with conical reflectors to generate plane wave front
- [NASA-CASE-NPO-11661] c07 N73-14130
Thin conformal antenna array for microwave power conversion
- [NASA-CASE-NPO-13886-1] c32 N77-11269
Dual frequency circularly polarized microwave integrated antenna
- [NASA-CASE-MSC-16100-1] c32 N77-15233
MICROWAVE CIRCUITS
Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
- [NASA-CASE-ERC-10011] c07 N71-29065
MICROWAVE COUPLING
Microwave waveguide switch with rotor position control
- [NASA-CASE-INP-06507] c09 N71-23548
MICROWAVE EQUIPMENT
Apparatus for generating microwave signals at progressively related phase angles for driving antenna array
- [NASA-CASE-ERC-10046] c10 N71-18722
Broadband microwave waveguide window to compensate dielectric material filling
- [NASA-CASE-INP-08880] c09 N71-24808
Dual frequency feed systems for Cassegrainian antennas
- [NASA-CASE-NPO-13091-1] c09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
- [NASA-CASE-LAR-11352-1] c33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
- [NASA-CASE-NPO-13504-1] c33 N75-30430
MICROWAVE FILTERS
Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
- [NASA-CASE-NPO-11031] c07 N71-33606
Selective bandpass resonators using bandstop resonator pairs for microwave frequency operation
- [NASA-CASE-GSC-10990-1] c09 N73-26195
MICROWAVE FREQUENCIES
Varactor microwave frequency mixing circuit
- [NASA-CASE-IGS-02171] c09 N69-24324
Voltage tunable Gunn effect semiconductor for microwave generation
- [NASA-CASE-XER-07894] c09 N71-18721
Multimode antenna feed system for microwave and broadband communication
- [NASA-CASE-GSC-11046-1] c07 N73-28013
MICROWAVE OSCILLATORS
Microwave generator using Gunn effect for magnetic tuning
- [NASA-CASE-NPO-12106] c09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
- [NASA-CASE-LEW-11617-1] c33 N74-10195
MICROWAVE RADIOMETERS
Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
- [NASA-CASE-ERC-11020] c14 N71-26774
MICROWAVE REFLECTOMETERS
Reflectometer for receiver input impedance match measurement
- [NASA-CASE-INP-10843] c07 N71-11267
Surface defect detection by reflected microwave radiation pattern
- [NASA-CASE-ARC-10009-1] c15 N71-17822
MICROWAVE RESONANCE
Microwave double resonance spectroscopy absorption cell for gas analysis
- [NASA-CASE-LAR-10305] c14 N71-26137
MICROWAVE SENSORS
Remote sensing of vegetation and soil using microwave ellipsometry
- [NASA-CASE-GSC-11976-1] c43 N76-23671
MICROWAVE SWITCHING
Design of gyrator circuit using operational amplifiers to replace ungrounded inductors
- [NASA-CASE-XAC-10608-1] c09 N71-12517
MICROWAVE TUBES
Electrostatic charged particle collector containing stacked electrodes for microwave tube
- [NASA-CASE-LEW-11192-1] c09 N73-13208
MICROWAVES
Radio frequency noise generator having microwave slow-wave structure in gas discharge plasma
- [NASA-CASE-XER-11019] c09 N71-23598
Method and apparatus for optically modulating light or microwave beam
- [NASA-CASE-GSC-10216-1] c23 N71-26722
Microwave waveguide mixer
- [NASA-CASE-ERC-10179] c07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
- [NASA-CASE-MFS-21470-1] c44 N74-19870
RF beam center location method and apparatus for power transmission system
- [NASA-CASE-NPO-13821-1] c44 N76-26692
Wide power range microwave feedback controller
- [NASA-CASE-GSC-12146-1] c33 N77-21322
MIDAIR COLLISIONS
Econometrical satellite aided vehicle avoidance system for preventing midair collisions
- [NASA-CASE-ERC-10419] c21 N72-21631
Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
- [NASA-CASE-LAR-10717-1] c21 N73-30641
MILLIMETER WAVES
Millimeter wave antenna system for spacecraft use
- [NASA-CASE-GSC-10949-1] c07 N71-28965
Millimeter wave pumped parametric amplifier
- [NASA-CASE-GSC-11617-1] c33 N74-32660
MILLING (MACHINING)
Rotary spindle lathe attachments for machining geometrical cones
- [NASA-CASE-IHS-04292] c15 N71-22722
MILLING MACHINES
Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections
- [NASA-CASE-INP-00908] c14 N70-40238
Description of portable milling tool for milling tube or pipe ends to desired shape and thickness
- [NASA-CASE-INP-03511] c15 N71-22799

- Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c37 N74-27905
- MINERAL METABOLISM**
- Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
- MINIATURE ELECTRONIC EQUIPMENT**
- Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
- Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
- Solid state television camera system consisting of monolithic semiconductor mosaic sensor and molecular digital readout systems
[NASA-CASE-XNP-06092] c07 N71-24612
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c35 N77-14407
- MINIATURIZATION**
- Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
- Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
- Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
[NASA-CASE-MSC-13332-1] c14 N72-21408
- MIRRORS**
- Pneumatic control of telescopic mirror support system
[NASA-CASE-XLA-03271] c11 N69-24321
- Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
- Servo system for retroreflector of Michelson interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
- Gas laser frequency stabilized by position of mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
- Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
- Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
- Optical range finder using reflective first surfaces mirror and transmitting beam splitter
[NASA-CASE-MSC-12105-1] c14 N72-21409
- Optical mirror support system
[NASA-CASE-XER-07896-2] c23 N72-22673
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c35 N76-14433
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c12 N76-15189
- Method and means for testing a glancing-incidence mirror system --- for X-ray telescopes
[NASA-CASE-MFS-22409-2] c74 N76-26988
- Three-mirror telescope
[NASA-CASE-MFS-23675-1] c74 N77-28937
- MISSILE CONTROL**
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
- MISSILE LAUNCHERS**
- Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XNP-03198] c30 N70-40353
- Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
- Controlled release device for use in launching rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043
- MITOSIS**
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c51 N77-25769
- MIXING CIRCUITS**
- Varactor microwave frequency mixing circuit
[NASA-CASE-IGS-02171] c09 N69-24324
- Microwave waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141
- MOBILITY**
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
- MODE TRANSFORMERS**
- Silicon controlled rectifier inverter with compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984
- Dual waveguide mode source for controlling amplitudes of two modes
[NASA-CASE-XNP-03134] c07 N71-10676
- Direct current transformer
[NASA-CASE-MFS-23659-1] c33 N77-20341
- MODEMS**
- Charge storage diode modulators and demodulators
[NASA-CASE-NFO-10189-1] c33 N77-21314
- MODULATION**
- Demodulator for carrier transducers
[NASA-CASE-MUC-10107-1] c33 N74-17930
- MODULATORS**
- Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-IGS-04480] c16 N69-27491
- Optical retrodirective modulator with focus spooling reflector driven by modulation signal
[NASA-CASE-GSC-10062] c14 N71-15605
- Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-PRC-10072-1] c33 N74-14939
- Charge storage diode modulators and demodulators
[NASA-CASE-NFO-10189-1] c33 N77-21314
- MODULES**
- Biorthogonal encoder with modular design
[NASA-CASE-NPO-10629] c08 N72-18184
- MOISTURE**
- Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
- MOISTURE CONTENT**
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671
- MOISTURE METERS**
- Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
- MOLDING MATERIALS**
- Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
- Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XNP-03498] c15 N71-15986
- Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
- Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLE-05641-1] c15 N71-26346
- Holding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c31 N74-13177
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133
- MOLDS**
- Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836

- Using molds for fabricating individual fluid circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c31 N74-32920
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570
- MOLECULAR BEAMS**
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLE-01533] c11 N71-10777
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c20 N74-31269
- MOLECULAR GASES**
Compact hydrogenator
[NASA-CASE-NFO-11682-1] c35 N74-15127
- MOLECULAR OSCILLATORS**
Stabilization of He2(a-3 Sigma(+)) molecules in liquid helium by optical pumping for vacuum UV laser
[NASA-CASE-NFO-13993-1] c36 N77-24468
- MOLECULAR PUMPS**
Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
- Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
- MOLECULAR ROTATION**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-01370-1] c36 N75-31426
- MOLECULAR SPECTROSCOPY**
Microwave double resonance spectroscopy absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137
- MOLTEN SALT ELECTROLYTES**
Operation method for combined electrolysis device and fuel cell using molten salt to produce power by thermoelectric regeneration mechanism
[NASA-CASE-XLE-01645] c03 N71-20904
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NFO-11961-1] c44 N76-18643
- MOLYBDENUM CARBIDES**
Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
- MOLYBDENUM COMPOUNDS**
Method for producing refractory molybdenum disilicides
[NASA-CASE-XMS-00370] c17 N71-20941
- MOMENTS OF INERTIA**
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992
- MOMENTUM**
Utilization of momentum devices for forming attitude control and damping system for spacecraft
[NASA-CASE-XLA-02551] c21 N71-21708
- Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990
- MONITORS**
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
- Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
- Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
- Peak polarity selector for monitoring waveforms
[NASA-CASE-FEC-10010] c10 N71-24862
- Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
- Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NFO-10985] c14 N73-20478
- Monitoring and recording lightning strokes in predetermined area
[NASA-CASE-KSC-10728-1] c14 N73-32319
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c74 N74-21304
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c33 N77-21319
- Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394
- MONOCHROMATIC RADIATION**
Apparatus for producing monochromatic light from continuous plasma source
[NASA-CASE-XNP-04167-2] c25 N72-24753
- Laser extensometer
[NASA-CASE-NFS-19259-1] c36 N77-10516
- MONOCHROMATORS**
Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator
[NASA-CASE-LAR-10180-1] c06 N71-13461
- Color television system for allowing monochrome television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109
- MONOPOLE ANTENNAS**
Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
- Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
- MONOPROPELLANTS**
Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
- Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-1] c20 N77-28219
- MONOPULSE ANTENNAS**
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
- Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
- Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472
- MONOPULSE RADAR**
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
- Monopulse tracking system with antenna array of three radiators for deriving azimuth and elevation indications
[NASA-CASE-XGS-01155] c10 N71-21483
- MONOSTABLE MULTIVIBRATORS**
Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
- Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
- MOSSBAUER EFFECT**
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XNP-05882] c35 N75-27329
- MOTION**
Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XFP-05421] c15 N71-22994

MOTION PERCEPTION

A condition sensor system and method
[NASA-CASE-HSC-14805-1] c35 N76-26448

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-HFS-21087-1] c35 N74-17153
Real time, large volume, moving scene
holographic camera system
[NASA-CASE-HFS-22537-1] c35 N75-27328

MOTION SIMULATORS
Kinesthetic control simulator --- for pilot
training
[NASA-CASE-LAR-10276-1] c09 N75-15662

MOTION STABILITY
Hydraulic drive mechanism for leveling isolation
platforms
[NASA-CASE-XMS-03252] c15 N71-10658

MOTORS
Nonmagnetic thermal motor for magnetometer
movement
[NASA-CASE-XAR-03786] c09 N69-21313
System for maintaining motor at predetermined
speed using digital pulses
[NASA-CASE-XMP-06892] c09 N71-24805
Mechanical thermal motor
[NASA-CASE-HFS-23062-1] c37 N77-12402

MOUNTING
Mounting fixture for supporting thermobulb in
pipeline
[NASA-CASE-NPO-10158] c33 N71-16356
Mounting apparatus for temperature control system
[NASA-CASE-NFO-10138] c33 N71-16357
Inertial component clamping assembly design for
spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Techniques for packaging and mounting printed
circuit boards
[NASA-CASE-HFS-21919-1] c10 N73-25243
Lubricated journal bearing
[NASA-CASE-LBW-11076-3] c37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-HFS-22905-1] c19 N76-22284
Deformable bearing seat
[NASA-CASE-LBW-12527-1] c37 N77-32500

MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NFO-11850-1] c32 N74-12912

MULTICHANNEL COMMUNICATION
Tape guidance system for multichannel digital
recording system
[NASA-CASE-IMP-09453] c08 N71-19420
Plural channel data transmission system with
quadrature modulation and complementary
demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
Improved phase lock loop for receiver in
multichannel telemetry system with suppressed
carrier
[NASA-CASE-NFO-11593-1] c07 N73-28012
Miniature multichannel biotelemetry system
[NASA-CASE-NFO-13065-1] c52 N74-26625
Medical subject monitoring systems ---
multichannel monitoring systems
[NASA-CASE-HSC-14180-1] c52 N76-14757

MULTIENGINE VEHICLES
Vortex attenuation method --- for multi-engine
aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045

MULTILAYER INSULATION
Electrode sealing and insulation for fuel cells
containing caustic liquid electrolytes using
powdered plastic and metal
[NASA-CASE-HMS-01625] c15 N71-23022
Multilayer insulation panels for cryogenic
liquid containers
[NASA-CASE-HFS-14023] c33 N71-25351
Electrical failure detector in solid rocket
propellant motor insulation against thermal
degradation by fuel grain
[NASA-CASE-IMP-03968] c14 N71-27186
Insulation foil and method of making
[NASA-CASE-LBW-11484-2] c24 N75-14839
Method of making an insulation foil
[NASA-CASE-LBW-11484-1] c24 N75-33181
Insulation for piping
[NASA-CASE-HSC-19523-1] c31 N76-16245

MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c32 N77-10392

MULTIPLE BEAM INTERVAL SCANNERS

Tracking antenna system with array for
synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Variable beamwidth antenna --- with multiple
beam, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295

MULTIPLE DOCKING ADAPTERS
Probe and drogue assembly for mechanical linking
of two space vehicles
[NASA-CASE-XMS-03613] c31 N71-16346

MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware
exchange system
[NASA-CASE-NPO-13422-1] c60 N76-14818

MULTIPLEXING
Doppler frequency shift correction device for
multiplex communication with Applications
Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
Multiplexed communication system design
including automatic correction of transmission
errors introduced by frequency spectrum shifts
[NASA-CASE-IMP-01306] c07 N71-20814
Satellite network synchronization system with
multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
Apparatus with summing network for compression
of analog data by decreasing slope threshold
sampling
[NASA-CASE-NFO-10769] c08 N72-11171
Development and characteristics of data
multiplex circuit using field effect
transistors arranged in tree switching
configuration
[NASA-CASE-NPO-11333] c08 N72-22162
Telemetry and transmission system with
programmed sampling and multiplexing
[NASA-CASE-GSC-11388-1] c07 N73-24187
Television multiplexing system, using single
crystal controlled clock for signal
synchronization
[NASA-CASE-KSC-10654-1] c07 N73-30115
Asynchronous, multiplexing, single line
transmission and recovery data system --- for
satellite use
[NASA-CASE-NPO-13321-1] c32 N75-26195
Correlation type phase detector --- with time
correlation integrator for frequency
multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243
System for producing chroma signals
[NASA-CASE-HSC-14683-1] c74 N77-18893

MULTIPLIERS
Pulse duration modulation multiplier system
[NASA-CASE-XER-09213] c07 N71-12390
Design and development of variable pulse width
multiplier
[NASA-CASE-XLA-02850] c09 N71-20447
Capacitance multiplier and filter synthesizing
network
[NASA-CASE-NPO-11948-1] c33 N74-32712

MULTISPECTRAL BAND SCANNERS
Optical process for producing classification
maps from multispectral data
[NASA-CASE-HSC-14472-1] c43 N77-10584
An interactive color display for multispectral
imagery using correlation clustering
[NASA-CASE-HSC-16253-1] c43 N77-31583

MULTISPECTRAL PHOTOGRAPHY
Computerized optical system for producing
multiple images of a scene simultaneously
[NASA-CASE-HSC-12404-1] c23 N73-13661
Optical process for producing classification
maps from multispectral data
[NASA-CASE-HSC-14472-1] c43 N77-10584
An interactive color display for multispectral
imagery using correlation clustering
[NASA-CASE-HSC-16253-1] c43 N77-31583

MULTISTAGE ROCKET VEHICLES
Techniques for recovery of multistage rocket
vehicles by providing lifting surfaces on
individual sections
[NASA-CASE-IMP-00389] c31 N70-34176
Steerable solid propellant rocket motor adapted
to effect payload orientation as multistage
rocket stage or reduce velocity as retrorocket
[NASA-CASE-IMP-00234] c28 N70-38645

- Multi-mission space vehicle module stage design
[NASA-CASE-XMP-01543] c31 N71-17730
- Separation mechanism for use between stages of multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874
- Development of remotely controlled shaped charge for lateral displacement of rocket stages after separation
[NASA-CASE-XIA-04804] c31 N71-23008
- Frangible connecting link suitable for rocket stage separation
[NASA-CASE-HSC-11849-1] c15 N72-22488
- MULTIVIBRATORS**
- Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
- Variable frequency magnetic coupled multivibrator with temperature compensated frequency control circuit
[NASA-CASE-XGS-00458] c09 N70-38604
- Variable frequency magnetic coupled multivibrator with output signal of constant amplitude and waveform
[NASA-CASE-XGS-00131] c09 N70-38995
- Improved semiconductor multivibrator circuit which approaches 100 percent efficiency
[NASA-CASE-XAC-00942] c10 N71-16042
- Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
- One shot multivibrator circuit for producing long duration output pulses
[NASA-CASE-ARC-10137-1] c09 N71-28468
- MUSCLES**
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NFO-13423-1] c33 N75-31329
- MUSCULAR FUNCTION**
- Miniature muscle displacement transducer
[NASA-CASE-NFO-13519-1] c33 N76-19338
- MUSCULOSKELETAL SYSTEM**
- Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738
- MYOCARDIUM**
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NFO-13644-1] c52 N76-29895
- N**
- NACELLES**
- Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
- Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
- NAVIGATION AIDS**
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
- NAVIGATION INSTRUMENTS**
- Sun angle calculator
[NASA-CASE-HSC-12617-1] c35 N76-29552
- NAVIGATION SATELLITES**
- Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
- NEAR INFRARED RADIATION**
- Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-NFS-20546-2] c14 N73-30389
- NEGATIVE FEEDBACK**
- Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
- Solid-state current transformer
[NASA-CASE-NFS-22560-1] c33 N77-14335
- NEODYMIUM LASERS**
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c36 N77-25499
- NETWORK SYNTHESIS**
- Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
- High speed phase detector design indicating phase relationship between two square wave input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596
- NEUROGLIA**
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
- NEUTRALIZERS**
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429
- NEUTRON EMISSION**
- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c72 N76-15860
- NICKEL**
- Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
- Selective nickel deposition on irradiation sensitive compounds
[NASA-CASE-LEW-10965-1] c15 N72-25452
- Brazing alloy composition
[NASA-CASE-XNP-06053] c26 N75-27126
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c24 N77-19171
- NICKEL ALLOYS**
- Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
- Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
- Nickel base alloy with resistance to oxidation at high temperatures and superior stress-rupture properties
[NASA-CASE-XLE-02082] c17 N71-16026
- High strength nickel based alloys
[NASA-CASE-LEW-10874-1] c17 N72-22535
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c37 N74-21055
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N77-20201
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c26 N77-32279
- Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c26 N77-32280
- NICKEL CADMIUM BATTERIES**
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c34 N74-27859
- Method and apparatus for reconditioning nickel-cadmium batteries
[NASA-CASE-NFS-23270-1] c44 N77-12511
- NICKEL COATINGS**
- Intermetallic chromium containing nickel aluminate for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414
- NICKEL COMPOUNDS**
- Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity
[NASA-CASE-IGS-03505] c03 N71-10608
- Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127
- NICKEL PLATE**
- Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
- NIOBIUM**
- Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808
- NITRIC OXIDE**
- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260
- NITRIDES**
- Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054

NITRILES

Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579

NITROAMINES

Nitroaniline sulfate, intumescent paints
[NASA-CASE-ARC-10099-1] c18 N71-15469
Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
Nitramine propellants
[NASA-CASE-NFO-14103-1] c28 N77-25346

NITROGEN

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NFO-12134-1] c33 N76-31409

NITROGEN OXIDES

Combustion engine --- for air pollution control
[NASA-CASE-NFO-13671-1] c37 N77-31497

NITROGEN TETROXIDE

Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NFO-10234] c06 N72-17094

NITROGUANIDINE

Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NFO-12000] c27 N72-25699

NOISE GENERATORS

Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c35 N77-17426

NOISE METERS

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c35 N77-23441

NOISE REDUCTION

Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-XNP-00683] c09 N70-35425
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XMP-01813] c28 N70-41582
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
Noise elimination in coherent imaging system by axial rotation of optical lens for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NFO-11631] c10 N73-12244
Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
Method for eliminating noise and debris of explosive welding techniques by using complete enclosure

[NASA-CASE-LAR-10941-2] c15 N73-32371
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c07 N74-15453
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c07 N74-27490
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c09 N76-23273
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036
Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130

NOISE TEMPERATURE
Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774

NOISE THRESHOLD
Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696

NONDESTRUCTIVE TESTS
Nondestructive radiographic tests of resistance welds
[NASA-CASE-XNP-02588] c15 N71-18613
Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NFO-10141] c11 N71-24964
Apparatus for semiautomatic inspection of microfilmed documents for density, resolution, size, and position
[NASA-CASE-MFS-20240] c14 N71-26788
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170
Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124
Hybrid holographic non-destructive test system --- optical and acoustical methods capable of detecting flaws in materials
[NASA-CASE-MFS-23114-1] c35 N76-24529
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NFO-12142-1] c38 N76-28563
Nondestructive method for instrumenting helicopter rotor blades
[NASA-CASE-LAR-11201-1] c35 N77-22452

NON-EQUILIBRIUM PLASMAS
Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884

NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an

- halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
- Process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c27 N77-14262
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ABC-11040-1] c24 N77-19173
- NONLINEAR FEEDBACK**
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NFO-11921-1] c32 N74-30523
- Nonlinear nonsingular feedback shift registers
[NASA-CASE-NFO-13451-1] c33 N76-14373
- NONLINEAR SYSTEMS**
Detector assembly for discriminating first signal with respect to presence or absence of second signal at time of occurrence of first signal
[NASA-CASE-INP-00701] c09 N70-40272
- Describing continuous analog to digital converter with parallel digital output and nonlinear feedback
[NASA-CASE-XAC-04031] c08 N71-18594
- Split range transducer
[NASA-CASE-XIA-11189] c10 N72-20222
- NOSE CONES**
Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
- Nose cone rounded heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
- NOSE WHEELS**
Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XIA-01804] c02 N70-34160
- NOTCH TESTS**
Vee-notching device --- with adjustable carriage
[NASA-CASE-NFS-20730-1] c39 N74-13131
- Notch filter
[NASA-CASE-NFS-23303-1] c32 N77-18307
- NOTCHES**
Notch filter
[NASA-CASE-NFS-23303-1] c32 N77-18307
- NOZZLE DESIGN**
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
- Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711
- Telescoping-spike supersonic nozzle for turbojet or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
- Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
- Propellant injection assembly having individually removable and replaceable nozzles for liquid fueled rocket engines
[NASA-CASE-INP-00968] c28 N71-15660
- Development of collapsible nozzle extension for rocket engines
[NASA-CASE-NFS-11497] c28 N71-16224
- Design and development of gas turbine combustion unit with nozzle guide vanes for introducing diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
- Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-INP-02888] c18 N71-21068
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NFO-11758-1] c31 N74-23065
- Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NFO-13823-1] c37 N77-17466
- NOZZLE FLOW**
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
- Constructing fluid spike nozzle to eliminate heat transfer and high temperature problems inherent in physical spikes
[NASA-CASE-IGS-01143] c31 N71-15647
- Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NFO-10185] c10 N71-26339
- Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-NFS-20831] c28 N71-29153
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c09 N77-19077
- NOZZLE GEOMETRY**
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAB-11919-1] c07 N76-22202
- NOZZLE INSERTS**
Flexible rocket motor nozzle closure device to aid ignition and protect rocket chamber from foreign objects
[NASA-CASE-XLA-02651] c28 N70-41967
- NUCLEAR ELECTRIC POWER GENERATION**
Nuclear electric generator for accelerating charged propellant particles in electrostatic propulsion system
[NASA-CASE-XLE-00818] c22 N70-34248
- NUCLEAR EXPLOSION EFFECT**
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-INP-01310] c33 N71-28852
- NUCLEAR FUEL ELEMENTS**
Tungsten-coated tungsten-uranium dioxide nuclear fuel plates
[NASA-CASE-XLE-00209] c22 N73-32528
- NUCLEAR MAGNETIC RESONANCE**
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-INP-09830] c14 N71-26266
- NUCLEAR POWER PLANTS**
Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations
[NASA-CASE-IRQ-03673] c33 N71-29046
- NUCLEAR PUMPING**
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c36 N77-21424
- NUCLEAR REACTOR CONTROL**
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
- NUCLEAR REACTORS**
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NFO-13121-1] c73 N77-18891
- NUCLEAR ROCKET ENGINES**
Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
- NUCLEATE BOILING**
Method for improving heat transfer characteristics in nucleate boiling process
[NASA-CASE-XMS-04268] c33 N71-16277
- NULL ZONES**
Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
- NUMBER THEORY**
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
- NUMERICAL CONTROL**
Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215
- NUMERICAL INTEGRATION**
Apparatus for computing square roots
[NASA-CASE-IGS-04768] c08 N71-19437
- NOTATION**
Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-INP-00442] c31 N71-10747
- Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513
- NUTS (FASTENERS)**
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-IGS-01971] c15 N71-15922

Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Device for securing together structural members
with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457

O

O RING SEALS

High pressure four-way valve with O ring adapted
to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908

OBLIQUE WINGS

Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c05 N76-29217

OCEAN SURFACE

High visibility air sea rescue panel
[NASA-CASE-MSC-12564-1] c54 N76-15792

OCEAN THERMAL ENERGY CONVERSION

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c44 N77-21666

OHMMETERS

Development of electrical system for indicating
optimum contact between electrode and metal
surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497

OIL RECOVERY

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c36 N77-18429
Oil and fat absorbing polymers
[NASA-CASE-WFO-11609-2] c27 N77-31308

OILS

Color photointerpretation of interference colors
reflected from thin film oil-coated components
in moving gases for gas flow visualization
[NASA-CASE-XNP-01779] c12 N71-20815
Oil and fat absorbing polymers
[NASA-CASE-WFO-11609-2] c27 N77-31308

OMNIDIRECTIONAL ANTENNAS

Microwave omnidirectional antenna for use on
spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
Vertically stacked collinear array of
independently fed omnidirectional antennas for
use in collision warning systems on commercial
aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Omnidirectional antenna array with
circumferential slots for mounting on
cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247

ONBOARD EQUIPMENT

Survival couch for aircraft or spacecraft crews
[NASA-CASE-XLA-00118] c05 N70-33285
Cryogenic storage system for gases onboard
spacecraft
[NASA-CASE-XMS-04390] c31 N70-41871
Fiber optic transducers for monitoring and
analysis of vibration in aerospace vehicles
and onboard equipment
[NASA-CASE-XNP-02433] c14 N71-10616
Design and construction of satellite appendage
tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
Satellite aided aircraft collision avoidance
system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
Closed loop servosystem for variable speed tape
recorders onboard spacecraft
[NASA-CASE-WFO-10700] c07 N71-33613
Collapsible couch system for manned space vehicles
[NASA-CASE-MSC-13140] c05 N72-11085
Monostable multivibrator for conserving power in
spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
Delayed simultaneous appendage release mechanism
for use on spacecraft equipped with despin
mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039
Electronic strain level counter on in-flight
aircraft
[NASA-CASE-LAR-10756-1] c32 N73-26910
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
OPERATIONAL AMPLIFIERS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321
OPHTHALMOLOGY
Ultrasonic device for ophthalmic eye surgery

with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640
Improved tissue macerating instrument ---
ophthalmic liquifaction pump
[NASA-CASE-LEW-12668-1] c52 N76-23837
Flow compensating pressure regulator --- for
ophthalmic applications
[NASA-CASE-LEW-12718-1] c35 N77-20408
OPTICAL COMMUNICATION
Fabry-Perot interferometer retrodirective
reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491
Specifications and drawings for semipassive
optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
Optical communication system with gas filled
waveguide for laser beam transmission
[NASA-CASE-HQN-10541-4] c16 N71-27183
Development and characteristics of optical
communications system based on modulation of
light beams
[NASA-CASE-XLA-01090] c16 N71-28963
High resolution radar transmitting system for
transmitting optical pulses to targets
[NASA-CASE-WFO-11426] c07 N73-26119
Apparatus for simulating optical transmission
links
[NASA-CASE-GSC-11877-1] c74 N76-18913
Fiber distributed feedback laser
[NASA-CASE-WFO-13531-1] c36 N76-24553
Polarization compensator for optical
communications
[NASA-CASE-GSC-11782-1] c74 N76-30053
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c74 N77-15826
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
Wideband heterodyne receiver for laser
communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346
OPTICAL COUPLING
Automatic quadrature control and measuring system
--- using optical coupling circuitry
[NASA-CASE-WFS-21660-1] c35 N74-21017
OPTICAL DATA PROCESSING
Optical data processing system using
paraboloidal reflecting surfaces
[NASA-CASE-GSC-11296-1] c23 N73-30666
Recorder/processor apparatus --- for optical
data processing
[NASA-CASE-GSC-11553-1] c35 N74-15831
An interleaving device --- for computer logic
circuits used in optical data processing
[NASA-CASE-GSC-12111-2] c60 N77-31800
OPTICAL EMISSION SPECTROSCOPY
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
OPTICAL EQUIPMENT
Detection instrument for light emitted from ATP
biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Combined optical attitude and altitude
indicating instrument for use in aircraft or
spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Design and development of optical interferometer
with laser light source for application to
schlieren systems
[NASA-CASE-XLA-04295] c16 N71-24170
Highly stable optical mirror assembly optimizing
image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Optical device containing rotatable prism and
reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
Development and characteristics of Petzval type
objective including field shaping lens for
focusing light of specified wavelength band on
curved photoreceptor
[NASA-CASE-GSC-10700] c23 N71-30027
Slotted fine-adjustment support for optical
devices
[NASA-CASE-WFS-20249] c15 N72-11386
Development of process for constructing
protective covers for solar cells

- [NASA-CASE-GSC-11514-1] c03 N72-24037
Development of light sensing system for controlled orientation of object relative to sun or other light source
- [NASA-CASE-NPO-11311] c14 N72-25414
Borescope with adjustable hinged telescoping optical system
- [NASA-CASE-MFS-15162] c14 N72-32452
Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
- [NASA-CASE-NFO-1C758] c14 N73-14427
Method for producing reticles for use in outer space
- [NASA-CASE-GSC-11188-2] c21 N73-19630
Method and equipment for locating earth infrared horizon from space, independent of season and latitude
- [NASA-CASE-LAR-10726-1] c14 N73-20475
Optical imaging system for increasing light absorption efficiency of imaging detector
- [NASA-CASE-ARC-10194-1] c23 N73-20741
Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
- [NASA-CASE-KSC-10752-1] c15 N73-27407
Attitude sensor
- [NASA-CASE-LAR-10586-1] c19 N74-15089
Formation of star tracking reticles
- [NASA-CASE-GSC-11188-3] c74 N74-20008
Method and apparatus for optically monitoring the angular position of a rotating mirror
- [NASA-CASE-GSC-11353-1] c74 N74-21304
Single reflector interference spectrometer and drive system therefor
- [NASA-CASE-NFO-11932-1] c35 N74-23040
Strain gauge ambiguity sensor for segmented mirror active optical system
- [NASA-CASE-MFS-20506-1] c35 N75-12273
Optical alignment device
- [NASA-CASE-ARC-10932-1] c74 N76-22993
Visual examination apparatus
- [NASA-CASE-RE-ARC-10329-2] c52 N76-30793
Optical instrument employing reticle having preselected visual response pattern formed thereon
- [NASA-CASE-ARC-10976-1] c74 N77-22950
Water system virus detection
- [NASA-CASE-MSC-16098-1] c51 N77-24755
Opto-mechanical subsystem with temperature compensation through isothermal design
- [NASA-CASE-GSC-12059-1] c35 N77-27366
Method and apparatus for producing an image from a transparent object
- [NASA-CASE-GSC-11989-1] c74 N77-28932
Three-mirror telescope
- [NASA-CASE-MFS-23675-1] c74 N77-28937
Method of treating the surface of a glass member
- [NASA-CASE-GSC-12110-1] c27 N77-32308
- OPTICAL FILTERS**
- Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622
- Noise elimination in coherent imaging system by axial rotation of optical lens for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
- Optical conversion method
[NASA-CASE-MSC-12618-1] c74 N76-18917
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893
- OPTICAL HETERODYNING**
- Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346
- OPTICAL MEASUREMENT**
- Passive optical wind and turbulence remote detection system
[NASA-CASE-INP-14032] c20 N71-16340
- Ellipsoidal mirror reflector for measuring reflectance
- [NASA-CASE-IGS-05291] c23 N71-16341
Single reflector interference spectrometer and drive system therefor
- [NASA-CASE-NFO-11932-1] c35 N74-23040
Hybrid holographic non-destructive test system --- optical and acoustical methods capable of detecting flaws in materials
- [NASA-CASE-MFS-23114-1] c35 N76-24529
- OPTICAL MEASURING INSTRUMENTS**
- Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-IGS-04879] c14 N71-20428
- Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
- Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
- Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
- Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c35 N77-10497
- OPTICAL PATHS**
- Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095
- OPTICAL PROPERTIES**
- Remote-reading torque meter for use where high horsepowers are transmitted at high rotative speeds
[NASA-CASE-XLE-00503] c14 N70-34818
- Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
- Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
- Design and development of light sensing device for controlling orientation of object relative to sun or other light source
[NASA-CASE-NPO-11201] c14 N72-27409
- Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c74 N74-20008
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c37 N74-21060
- OPTICAL PUMPING**
- Xenon flashlamp driver system for optical laser pumping
[NASA-CASE-ERC-10283] c16 N72-25485
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655
- OPTICAL PYROMETERS**
- Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XIA-00062] c14 N70-33254
- OPTICAL RADAR**
- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
- OPTICAL RANGE FINDERS**
- Electro-optical attitude sensing device for landing approach of flight vehicle
[NASA-CASE-XNS-01994-1] c14 N72-17326
- Optical range finder using reflective first surfaces mirror and transmitting beam splitter
[NASA-CASE-MSC-12105-1] c14 N72-21409
- OPTICAL REFLECTION**
- Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
- Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-IGS-04173] c19 N71-26674
- Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-BQN-10781] c23 N71-30292

- Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
- Schlieren system employing antiparallel reflector in the forward direction
[NASA-CASE-ARC-10971-1] c09 N76-26224
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c74 N77-26942
- Lightweight reflector assembly
[NASA-CASE-NFO-13707-1] c74 N77-28933
- OPTICAL RESONANCE**
- Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-XGS-004879] c14 N71-20428
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653
- OPTICAL SCANNERS**
- Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485
- Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-XNF-00462] c14 N70-34298
- Electro-optical system with scan-in illuminator and scan-out photosensor for scanning variable transmittance objects
[NASA-CASE-NFO-11106] c14 N70-34697
- Multi-lobar scan horizon sensor
[NASA-CASE-XGS-00809] c21 N70-35427
- Optical scanner with linear housing and rotating camera
[NASA-CASE-NFO-11002] c14 N72-22441
- Spacecraft attitude sensing system design with narrow field of view sensor rotating about spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640
- Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
- Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
- Optical scanner
[NASA-CASE-LAR-11711-1] c74 N76-23985
- OPTICAL TRACKING**
- Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678
- Optical tracker with pair of PM reticles having patterns 90 deg out of phase
[NASA-CASE-XGS-05715] c23 N71-16100
- Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
- OPTICAL TRANSFER FUNCTION**
- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c74 N76-19935
- OPTIMIZATION**
- Power point tracker for maintaining optimal output voltage of power source
[NASA-CASE-GSC-10376-1] c14 N71-27407
- ORBITAL MECHANICS**
- Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884
- ORBITAL SPACE STATIONS**
- Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
- Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XNF-05344] c31 N71-16345
- Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight
[NASA-CASE-MFS-20410] c15 N71-19214
- ORGANIC CHEMISTRY**
- Process for interfacial polymerization of pyromellitic dianhydride and tetraamino benzene
[NASA-CASE-XIA-03104] c06 N71-11235
- Amino acid analysis
[NASA-CASE-NFO-12130-1] c25 N75-14844
- ORGANIC COMPOUNDS**
- Synthesis of high purity dianilinosilanes
[NASA-CASE-XNF-06409] c06 N71-23240
- Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500
- Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NFO-10701] c06 N71-28620
- Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NFO-13063-1] c25 N76-18245
- Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161
- Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245
- ORGANIC LIQUIDS**
- Inorganic-organic battery separator for alkaline batteries
[NASA-CASE-LFW-12649-1] c44 N76-31674
- ORGANIC SILICON COMPOUNDS**
- Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256
- ORGANOMETALLIC COMPOUNDS**
- Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
- Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808
- ORGANOMETALLIC POLYMERS**
- Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c37 N74-21058
- ORGANS**
- A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621
- ORIFICE FLOW**
- Relief valve to permit slow and fast bleeding rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
- ORIFICES**
- Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
- ORTHOGONAL MULTIPLEXING THEORY**
- Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NFO-10595] c10 N71-25917
- ORTHOGONALITY**
- Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790
- ORTHOPEDICS**
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c54 N76-22914
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694
- ORTHOTROPIC CYLINDERS**
- Method for shaping regeneratively cooled rocket motor casing having minimum thickness at each channel cross section
[NASA-CASE-XLE-00409] c28 N71-15658
- Regeneratively cooled rocket motor casing with tapered channels to insure minimum thicknesses at each channel cross section for necessary strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659
- OSCILLATION DAMPERS**
- Design and operation of viscous pendulum damper

[NASA-CASE-XIA-02079] c12 N71-16894
 Stabilization system for gravity-oriented
 satellites using single damper rod
 [NASA-CASE-XAC-01591] c31 N71-17729
 Suspended mass oscillation damper based on
 impact energy absorption for damping wind
 induced oscillations of tall stacks, antennas,
 and unbilical towers
 [NASA-CASE-IAR-10193-1] c15 N71-27146
 Damper system for alleviating air flow shock
 loads on wind tunnel models
 [NASA-CASE-XIA-09480] c11 N71-33612

OSCILLATIONS
 Development of electrical circuit for
 suppressing oscillations across inductor
 operating in resonant mode
 [NASA-CASE-EBC-10403-1] c10 N73-26228

OSCILLATORS
 Oscillatory electromagnetic mirror drive system
 for horizon scanners
 [NASA-CASE-XIA-03724] c14 N69-27461
 Frequency control network for current feedback
 oscillators converting dc voltage to ac or
 higher dc voltages
 [NASA-CASE-GSC-10041-1] c10 N71-19418
 Development and characteristics of oscillating
 static inverter
 [NASA-CASE-XGS-05289] c09 N71-19470
 Voltage controlled oscillators and pulse
 amplitude modulation for signal ratio system
 [NASA-CASE-XMP-04367] c09 N71-23545
 Development and characteristics of fluid
 oscillator analog to digital converter with
 variable frequency controlled by signal
 passing through conditioning circuit
 [NASA-CASE-LEW-10345-1] c10 N71-25899
 Wideband voltage controlled oscillator with high
 phase stability
 [NASA-CASE-XIA-03893] c10 N71-27271
 Variable frequency subcarrier oscillator with
 temperature compensation
 [NASA-CASE-XNP-03916] c09 N71-28810
 Inverter oscillator with voltage feedback
 [NASA-CASE-NFO-10760] c09 N72-25254
 Controlled oscillator system with a time
 dependent output frequency
 [NASA-CASE-NFO-11962-1] c33 N74-10194
 Ultra-stable oscillator with complementary
 transistors
 [NASA-CASE-GSC-11513-1] c33 N74-20862
 LC-oscillator with automatic stabilized
 amplitude via bias current control --- power
 supply circuit for transducers
 [NASA-CASE-NFS-21698-1] c33 N74-26732
 Frequency modulated oscillator
 [NASA-CASE-NFS-23181-1] c33 N77-17351
 Distributed feedback acoustic surface wave
 oscillator
 [NASA-CASE-NFO-13673-1] c71 N77-26919

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 Sign wave generation simulator for variable
 amplitude, frequency, damping, and phase
 pulses for oscilloscope display
 [NASA-CASE-NFO-10251] c10 N71-27365
 Scan oscilloscope for mapping surface
 sensitivity of photomultiplier tube
 [NASA-CASE-LAR-10320-1] c09 N72-23172
 Mechanical exposure interlock device for
 preventing film overexposure in oscilloscope
 camera
 [NASA-CASE-LAR-10319-1] c14 N73-32322
 X-Y alphanumeric character generator for
 oscilloscopes
 [NASA-CASE-GSC-11582-1] c33 N75-19517

OUTER PLANETS EXPLORES
 Spectrometer integrated with a facsimile camera
 [NASA-CASE-LAR-11207-1] c35 N75-19613

OUTGASSING
 Optical characteristics measuring apparatus
 [NASA-CASE-XNP-08840] c23 N71-16365
 Helium outgassing process for fused glass
 coating on ion accelerator grid
 [NASA-CASE-LEW-10278-1] c15 N71-28582
 Fluid polydimethylsiloxane resin with low
 outgassing properties in cured state
 [NASA-CASE-GSC-11358-1] c06 N73-26100

OUTPUT
 Nonlinear nonsingular feedback shift registers
 [NASA-CASE-NFO-13451-1] c33 N76-14373

Ovens

Oven for heat treating heat shields
 [NASA-CASE-XMS-04318] c15 N69-27871

OVERVOLTAGE

Spark gap type protective circuit for fast
 sensing and removal of overvoltage conditions
 [NASA-CASE-XAC-08981] c09 N69-39897
 Sensing circuit for instantaneous reaction to
 power overloads
 [NASA-CASE-GSC-10667-1] c10 N71-33129
 Overvoltage protection network
 [NASA-CASE-ABC-10197-1] c33 N74-17929
 Overload protection system for power inverter
 [NASA-CASE-NFO-13872-1] c33 N77-17359

OXIDATION

Silicide coating process and composition for
 protection of refractory metals from oxidation
 [NASA-CASE-XLE-10910] c18 N71-29040
 Automated analysis of oxidative metabolites
 [NASA-CASE-ABC-10469-1] c25 N75-12086
 A process of forming catalytic surfaces for
 oxidation reactions
 [NASA-CASE-HSC-14831-1] c25 N76-23387
 Hydrogen rich gas generator
 [NASA-CASE-NFO-13464-2] c44 N76-29704

OXIDATION RESISTANCE

Wickel base alloy with resistance to oxidation
 at high temperatures and superior
 stress-rupture properties
 [NASA-CASE-XLE-02082] c17 N71-16026
 Method of protecting the surface of a substrate
 --- by applying aluminide coating
 [NASA-CASE-LEW-11696-1] c37 N75-13261
 Duplex aluminized coatings
 [NASA-CASE-LEW-11696-2] c26 N75-19408
 High temperature resistant cermet and ceramic
 compositions --- for use in thermionic
 converters or diodes
 [NASA-CASE-NFO-13690-1] c27 N76-13294
 High temperature oxidation resistant cermet
 compositions
 [NASA-CASE-NFO-13666-1] c27 N77-13217

Oxide Films

Stainless steel panel for selective absorption
 of solar energy and the method of producing
 said panel
 [NASA-CASE-NFS-23518-2] c44 N77-31611

Oxides

Utilization of lithium p-lithiphenoxide to
 prepare star polymers
 [NASA-CASE-NFO-10998-1] c06 N73-32029

Oxidizers

Electrolytically regenerative hydrogen-oxygen
 fuel cells
 [NASA-CASE-XLE-04526] c03 N71-11052
 Fuel and oxidizer injection head for thrust
 chamber of reaction engine
 [NASA-CASE-NFO-10046] c28 N72-17843

Oximetry

Ear oximeter for monitoring blood oxygenation
 and pressure, pulse rate, and pressure pulse
 curve, using dc and ac amplifiers
 [NASA-CASE-XAC-05422] c04 N71-23185

Oxygen

Analytical test apparatus and method for
 determining oxygen content in alkali liquid
 metal
 [NASA-CASE-XLE-01997] c06 N71-23527
 Heated tungsten filter for removing oxygen
 impurities from cesium
 [NASA-CASE-XNP-04262-2] c17 N71-26773
 Method for detecting oxygen in gas by
 thermoluminescence
 [NASA-CASE-LAR-10668-1] c06 N73-16106
 Method for obtaining oxygen from lunar or
 similar soil
 [NASA-CASE-HSC-12408-1] c46 N74-13011
 Nonflammable coating compositions --- for use in
 high oxygen environments
 [NASA-CASE-NFS-20486-2] c27 N74-17283

Oxygen Consumption

Respiration analyzing method and apparatus for
 determining subjects oxygen consumption in
 aerospace environments
 [NASA-CASE-YFR-08403] c05 N71-11202

Oxygen Fluorides

Utilization of oxygen difluoride for syntheses
 of fluoropolymers
 [NASA-CASE-NFO-12061-1] c27 N76-16228

OXYGEN METABOLISM

Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c52 N74-20728

OXYGEN PLASMA

Oxygen post-treatment of plastic surfaces coated with plasma polymerized siliccn-containing monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256

OXYGEN REGULATORS

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664

OXYGEN SUPPLY EQUIPMENT

Gas compression analysis --- for oxygen supply equipment
[NASA-CASE-MSC-14757-1] c37 N76-13496
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N76-24900

P

P-N JUNCTIONS

Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
Improving radiation resistance of silicon semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
Electrode connection for n-on-p siliccn solar cell
[NASA-CASE-XLE-04787] c03 N71-20492
Water content in vapor deposition atmosphere for forming n-type and p-type junctions of zinc doped gallium arsenide
[NASA-CASE-XNP-01961] c26 N71-29156
Method for making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c14 N72-28438
Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532

P-TYPE SEMICONDUCTORS

Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c33 N74-34638

PACKAGES

Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085

PACKAGING

Characteristics of device for folding thin flexible sheets into compact configuration
[NASA-CASE-XLA-00137] c15 N70-33180
Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-MFS-20855] c15 N73-27405

PACKING DENSITY

Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936

PACKINGS (SEALS)

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c37 N76-22541

PAD

Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562

PAINTS

Nitroaniline sulfate, intumescent paints
[NASA-CASE-ABC-10099-1] c18 N71-15469
Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183

White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184

PALLADIUM COMPOUNDS

Preventing pressure buildup in electrochemical cells by reacting palladium oxide with evolved hydrogen
[NASA-CASE-XGS-01419] c03 N70-41864
Separation of dissolved hydrogen from water and coating with palladium black
[NASA-CASE-MSC-13335-1] c06 N72-31140

PANELS

Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
Multilayer insulation panels for cryogenic liquid containers
[NASA-CASE-MFS-14023] c33 N71-25351
Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
Method for making pressurized meteoroid penetration detector panels
[NASA-CASE-XLA-08916] c15 N71-29018
Honeycomb panels of minimal surface, periodic tubule layers
[NASA-CASE-ERC-10364] c18 N72-25540
Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-IAR-11052-1] c32 N73-13929
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[NASA-CASE-MFS-20335-1] c35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c18 N75-27040
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[NASA-CASE-LAR-11181-1] c39 N75-31479
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[NASA-CASE-LAR-11898-1] c24 N77-15103

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[NASA-CASE-NPO-13847-2] c85 N77-17949
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Device for improving efficiency of parabolic horn antenna system for linearly polarized signals
[NASA-CASE-XNP-00611] c09 N70-35219
Drive system for parabolic tracking antenna with reversible motion and minimal backlash
[NASA-CASE-NFO-10173] c15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472

PARABOLIC REFLECTORS

Device for improving efficiency of parabolic reflector horn for linearly or circularly polarized waves
[NASA-CASE-XNP-00540] c09 N70-35382
Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580
Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
Plural beam antenna with parabolic reflectors
[NASA-CASE-GSC-11013-1] c09 N73-19234
Multimode antenna feed system for microwave and broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c32 N76-15329
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[NASA-CASE-GSC-11296-1] c23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c74 N74-27866

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Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804

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PASSIVE SATELLITES

Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009

Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
[NASA-CASE-XMS-04072] c15 N70-42017

Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898

PARACHUTE FABRICS
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c02 N74-10034

PARACHUTES
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c02 N76-16014

PARAGLIDERS
Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804

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[NASA-CASE-MFS-23194-1] c74 N76-13909

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Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-09462] c14 N71-17584

PARALLEL PROCESSING (COMPUTERS)
Digital data reformatter/deserializer
[NASA-CASE-NFO-13676-1] c60 N77-24781

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Development of idler feedback system to reduce electronic noise problem in two parametric amplifiers
[NASA-CASE-LAR-10253-1] c09 N72-25258
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[NASA-CASE-GSC-11617-1] c33 N74-32660

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[NASA-CASE-XMS-00907] c02 N70-41630

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Automated multi-level vehicle parking system
[NASA-CASE-NFO-13058-1] c37 N77-22480

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[NASA-CASE-XMS-01618] c14 N71-20741

PARTICLE ACCELERATION
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLF-01533] c11 N71-10777
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213

PARTICLE ACCELERATOR TARGETS
Dispensing targets for ion beam particle generators
[NASA-CASE-NFO-13112-1] c73 N74-26767
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[NASA-CASE-LFW-11866-1] c72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LFW-11981-1] c37 N76-20486
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[NASA-CASE-LFW-11981-2] c34 N77-32434

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[NASA-CASE-XLF-00243] c14 N70-38602
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[NASA-CASE-BQN-10740-1] c72 N74-19310

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[NASA-CASE-XMS-04201] c14 N71-22990

PARTICLE DENSITY (CONCENTRATION)
Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332

PARTICLE EMISSION
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328

PARTICLE ENERGY
Particle detector for indicating incidence and energy of minute space particles
[NASA-CASE-XLA-00135] c14 N70-33322
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[NASA-CASE-LAR-11434-1] c35 N76-22509

PARTICLE MASS
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[NASA-CASE-MSC-13802-2] c35 N76-15431

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[NASA-CASE-GSC-11889-1] c35 N76-16393

PARTICLE PRODUCTION
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[NASA-CASE-LEW-11390-3] c25 N76-29379

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[NASA-CASE-XNP-04816] c06 N69-39936
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLE-00010] c15 N70-33382
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLF-03940] c18 N71-26153
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
Particle size spectrometer and refractometer
[NASA-CASE-NPO-13614-1] c35 N75-19628
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[NASA-CASE-MSC-19095-1] c37 N75-19683
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[NASA-CASE-NPO-13756-1] c35 N76-14434

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[NASA-CASE-GSC-11892-1] c35 N76-15433

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[NASA-CASE-XNP-09770] c15 N71-20440
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535

PARTICULATE SAMPLING
Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-BQN-10037-1] c14 N73-27376
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c37 N74-13199
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c25 N74-26948
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[NASA-CASE-NPO-13396-1] c35 N76-18801

PASSAGEWAYS
Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936

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Rectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
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[NASA-CASE-XGS-02608] c07 N70-41678

PATENT APPLICATIONS

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[NASA-CASE-XLA-03497] c15 N71-23052

PATENT APPLICATIONS
Auxiliary power system for activity cooled aircraft
[NASA-CASE-LAR-11626-1] c34 N77-12332

PATENTS
Solar-powered pump
[NASA-CASE-NFO-13567-1] c44 N76-29701

PATENTS
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159

PATENT RECOGNITION
Roughness detector for recording surface pattern of irregularities
[NASA-CASE-XLA-00203] c14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c71 N74-21014

PAYLOADS
Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
Payload/spent rocket engine case separation system
[NASA-CASE-XLA-05369] c31 N71-15687
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085
Zero gravity apparatus utilizing pneumatic decelerating means to create payload subjected to zero gravity conditions by dropping its height
[NASA-CASE-XMF-06515] c14 N71-23227

PCM TELEMETRY
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-IGS-01983] c10 N70-41964
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NFO-12107] c08 N71-27255
High speed direct binary to binary coded decimal converter for use in PCM telemetry systems
[NASA-CASE-KSC-10326] c08 N72-21197

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Supporting structure for simultaneous exposure of pellets to X rays
[NASA-CASE-XMF-06031] c15 N71-15606

PELTIER EFFECTS
Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-IGS-04808] c03 N69-25146

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Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170

PENETRATION
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c35 N74-32879

PENETROMETERS
Development and characteristics of penetrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
Portable penetrometer for analyzing soil characteristics
[NASA-CASE-NFS-20774] c14 N73-19420
Auger-type soil penetrometer for burrowing into soil formations
[NASA-CASE-XMF-05530] c14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NFO-11103-1] c35 N77-27367

PERCEPTION
Measuring method for cutaneous perception using instrument with elongated tubular housing
[NASA-CASE-MSC-13609-1] c05 N72-25122

PERFLUORO COMPOUNDS
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NFO-10768] c06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NFO-10765] c06 N72-20121
Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain
[NASA-CASE-NFO-10862] c06 N72-22107
Silphenylenesiloxane polymer with in-chain perfluoroalkyl groups
[NASA-CASE-NFS-20979] c06 N72-25151
Polymerization of perfluorobutadiene
[NASA-CASE-NFO-10863-2] c06 N72-25152
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NFO-10768-2] c06 N72-27144
Process for preparing disilanol with in-chain perfluoroalkyl groups
[NASA-CASE-NFS-20979-2] c06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-NFS-22356-1] c23 N75-30256

PERFORATED PLATES
Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582

PERFORATED SHELLS
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c31 N74-18089

PERFORMANCE
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407

PERFORMANCE PREDICTION
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-NFS-23551-1] c04 N76-26175

PERFORMANCE TESTS
Flexible, frangible electrochemical cell and package for operation in low temperature environment
[NASA-CASE-IGS-10010] c03 N72-15986
Test method and equipment for identifying faulty cells or connections in solar cell assemblies
[NASA-CASE-NFO-10401] c03 N72-20033
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
Safety flywheel
[NASA-CASE-HQN-10888-1] c37 N77-22484

PERIODIC VARIATIONS
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-NFS-23267-1] c35 N77-20401

PERMEABILITY
Water insoluble, cationic permselective membrane
[NASA-CASE-NFO-11091] c18 N72-22567

PERMITTIVITY
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245

PEROXIDES
Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NFO-10447] c06 N70-11252

PERSPIRATION
Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120

PERTURBATION
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597

PERTURBATION THEORY

Dual wavelength scanning Doppler velocimeter ---
without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783

PHASE COHERENCE

Apparatus for estimating amplitude and sign of
phase difference or time lag between two signals
[NASA-CASE-NPO-11203] c10 N72-20224
Coherent receiver employing nonlinear coherence
detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523

PHASE CONTROL

System designed to reduce time required for
obtaining synchronization in data
communication with spacecraft utilizing
pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
Wideband voltage controlled oscillator with high
phase stability
[NASA-CASE-XLA-03893] c10 N71-27271
Voltage controlled oscillator circuit for
two-phase induction motor control
[NASA-CASE-MPS-21465-1] c10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519

PHASE DEMODULATORS

Development of phase demodulation system with
two phase locked loops
[NASA-CASE-XNP-00777] c10 N71-19469
Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248
Linear phase demodulator including a phase
locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334

PHASE DETECTORS

Detector assembly for discriminating first
signal with respect to presence or absence of
second signal at time of occurrence of first
signal
[NASA-CASE-XNP-00701] c09 N70-40272
Bipolar phase detector and corrector for split
phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
High speed phase detector design indicating
phase relationship between two square wave
input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
Low distortion automatic phase control circuit
--- voltage controlled phase shifter
[NASA-CASE-MPS-21671-1] c33 N74-22885
Correlation type phase detector --- with time
correlation integrator for frequency
multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c33 N77-13315
Phase substitution of spare converter for a
failed one of parallel phase staggered
converters
[NASA-CASE-NPO-13812-1] c33 N77-30365

PHASE DEVIATION

System for stabilizing cable phase delay
utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c33 N74-17927

PHASE LOCK DEMODULATORS

Phase locked demodulator with bandwidth
switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859

PHASE LOCKED SYSTEMS

System for phase locking onto carrier frequency
signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543
Phase locked loop with sideband rejecting
properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
Development of automatic frequency
discriminators and control for phase lock loop
providing frequency preset capabilities
[NASA-CASE-XNI-08665] c10 N71-19467
Development and characteristics of burst
synchronization detection system
[NASA-CASE-XNS-05605-1] c10 N71-19468
Development of phase demodulation system with
two phase locked loops
[NASA-CASE-XNP-00777] c10 N71-19469

Diversity receiving system with diversity phase
lock

[NASA-CASE-XGS-01222] c10 N71-20841
Phase locked phase modulation system with
voltage controlled oscillator for final phase
linearity
[NASA-CASE-XNP-05382] c10 N71-23544
Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
Characteristics of data-aided carrier tracking
loop used for tracking carrier in angle
modulated communications system
[NASA-CASE-NPO-11282] c10 N73-16205
Filter for third order phase locked loops in
signal receivers
[NASA-CASE-NPO-11941-1] c10 N73-27171
Improved phase lock loop for receiver in
multichannel telemetry system with suppressed
carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
Automatic carrier acquisition system for phase
locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113
Phase-locked servo system --- for synchronizing
the rotation of slip ring assembly
[NASA-CASE-MPS-22073-1] c33 N75-13139
Low speed phaselock speed control system --- for
brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248

PHASE MODULATION

Plural channel data transmission system with
quadrature modulation and complementary
demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
Adaptive notch filter, using modulation
techniques for reversed phase noise signal
[NASA-CASE-XNP-01892] c10 N71-22986
Phase locked phase modulation system with
voltage controlled oscillator for final phase
linearity
[NASA-CASE-XNP-05382] c10 N71-23544
Scanning signal phase and amplitude electronic
control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
Phase modulator with tuned variable length
electrical lines including coupling and
varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429
Multicarrier communications system for
transmitting modulated signals from single
transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
Decision feedback loop for tracking a polyphase
modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811
Modulator for tone and binary signals --- phase
of modulation of tone and binary signals on
carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981
Phase modulating with odd and even finite power
series of a modulating signal
[NASA-CASE-LAR-11607-1] c32 N77-14292
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c32 N77-27272

PHASE SHIFT

Bipolar phase detector and corrector for split
phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
Left and right hand circular electromagnetic
polarization excitation by phase shifter and
hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
Pulse code modulated data from frequency
multiplex communications by digital phase
shift or carrier
[NASA-CASE-NPO-11338] c08 N72-25208

PHASE SHIFT CIRCUITS

Design of gyrator circuit using operational
amplifiers to replace ungrounded inductors
[NASA-CASE-XAC-10608-1] c09 N71-12517
Phase shifting circuit for selecting phase of
input signal
[NASA-CASE-ARC-10269-1] c10 N72-16172

- Continuously variable, voltage-controlled phase shifter
[NASA-CASE-NPO-11129] c09 N72-33204
- Voltage controlled oscillator circuit for two-phase induction motor control
[NASA-CASE-MFS-21465-1] c10 N73-32145
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c33 N74-22885
- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c33 N77-17360
- PHASE SHIFT KEYING**
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c32 N74-26654
- Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c33 N74-27705
- Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c32 N77-24331
- PHASE SWITCHING INTERFEROMETERS**
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
- PHASE TRANSFORMATIONS**
Magneto-hydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XIE-02083] c03 N69-39983
- Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XIE-01182] c27 N71-15635
- PHASE VELOCITY**
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432
- PHASED ARRAYS**
Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
- Phase array antenna control
[NASA-CASE-MSC-14939-1] c33 N77-19320
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c32 N77-24340
- PHASED LOCKED SYSTEMS**
Bit synchronization system using digital data transition tracking phased locked loop
[NASA-CASE-NFO-10844] c07 N72-20140
- Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c33 N74-12887
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334
- PHENOLIC RESINS**
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
- PHENOLS**
Utilization of lithium p-lithiphenoxide to prepare star polymers
[NASA-CASE-NFO-10998-1] c06 N73-32029
- Device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c25 N77-18238
- PHONOCARDIOGRAPHY**
Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds
[NASA-CASE-XKS-10804] c05 N71-24606
- Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-IFR-07172] c05 N71-27234
- PHOSPHATES**
Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XIA-01995] c18 N71-23047
- PHOSPHINES**
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c27 N76-28425
- PHOSPHONITRILES**
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
- PHOTOCATHODES**
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-INP-04161] c14 N71-15599
- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NFO-12134-1] c33 N76-31409
- PHOTOCHEMICAL REACTIONS**
Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c72 N76-27967
- Process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c27 N77-14262
- Apparatus for photon excited catalysis
[NASA-CASE-NFO-13566-1] c25 N77-32255
- PHOTOCONDUCTIVE CELLS**
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751
- PHOTOCONDUCTIVITY**
Photofabrication techniques for selective removal of conductive metals oxide coatings from nonconductive substrates
[NASA-CASE-ERC-10108] c06 N72-21094
- PHOTOCONDUCTORS**
Electronic divider and multiplier for analog electric signals
[NASA-CASE-IFR-05637] c09 N71-19480
- PHOTOELECTRIC CELLS**
Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-IGS-01159] c21 N71-10678
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NFO-12127-1] c91 N74-13130
- PHOTOELECTRIC EFFECT**
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-INP-04161] c14 N71-15599
- PHOTOELECTRIC MATERIALS**
Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-INP-03930] c14 N69-24331
- Use of thin film light detector
[NASA-CASE-NFO-11432-2] c35 N74-15090
- PHOTOELECTRONS**
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NFO-13772-1] c35 N76-26450
- PHOTOGRAPHIC EQUIPMENT**
Camera protecting device for use in photographing rocket engine nozzles or other engine components
[NASA-CASE-NPO-10174] c14 N71-18465
- Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c27 N77-32308
- PHOTOGRAPHIC FILM**
Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
- Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
- Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
- Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c74 N76-31998
- Selective image area control of X-ray film exposure density
[NASA-CASE-NFO-13808-1] c35 N77-24456
- PHOTOGRAPHIC MEASUREMENT**
Photographic method for measuring viscoelastic strain in solid propellants and other materials
[NASA-CASE-INP-01153] c32 N71-17645

- Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c35 N76-28530
- PHOTOGRAPHIC PROCESSING**
Method of post-process intensification of images on photographic films and plates
[NASA-CASE-NFS-23461-1] c35 N76-26449
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
- PHOTOGRAPHIC PROCESSING EQUIPMENT**
Drying chamber for photographic sheet material
[NASA-CASE-GSC-11074-1] c14 N73-28489
- PHOTOGRAPHIC RECORDING**
Photographing surface flow patterns on wind tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366
Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551
Recording and reconstructing focused image holograms
[NASA-CASE-ERC-10017] c16 N71-15567
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-NFS-20596] c14 N72-17324
Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-XGS-03736] c14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551
- PHOTOIONIZATION**
Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
- PHOTOLYSIS**
Solar photolysis of water
[NASA-CASE-NFO-13675-1] c44 N77-32580
- PHOTOGRAPHING**
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899
- PHOTOMETERS**
Michelson interferometer with photodetector for optical direction sensing
[NASA-CASE-NFO-10320] c14 N71-17655
Indicator device for monitoring charge of wet cell battery, using semiconductor light emitter and photodetector
[NASA-CASE-NFO-10194] c03 N71-20407
Electro-optical detector for determining position of light source
[NASA-CASE-XNP-01059] c23 N71-21821
Photometric flow meter with comparator reference means
[NASA-CASE-XGS-01331] c14 N71-22996
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-LAR-10728-1] c14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947
A 2 degree/90 degree laboratory scattering photometer
[NASA-CASE-GSC-12088-1] c35 N76-17369
- PHOTOGRAPHY**
Stereo photomicrography system with stereo microscope for viewing specimen at various magnifications
[NASA-CASE-LAR-10176-1] c14 N72-20380
Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499
Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
- PHOTOMULTIPLIER TUBES**
Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
Electronic divider and multiplier for analog electric signals
[NASA-CASE-XFR-05637] c09 N71-19480
Circuit design for determining amount of photomultiplier tube light detection utilizing variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328
Scan oscilloscope for mapping surface sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Design and development of light sensing device for controlling orientation of object relative to sun or other light source
[NASA-CASE-NFO-11201] c14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c33 N74-27682
- PHOTON BEAMS**
Apparatus for photon excited catalysis
[NASA-CASE-NFO-13566-1] c25 N77-32255
- PHOTONS**
Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
- PHOTOSENSITIVITY**
Photosensitive light source device for detecting unmanned spacecraft deviation from reference attitude
[NASA-CASE-XNP-00438] c21 N70-35089
Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568
Scan oscilloscope for mapping surface sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-NFS-22040-1] c35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-NFS-22208-1] c33 N75-26244
- PHOTOTRANSISTORS**
Phototransistor imaging system with mosaic of phototransistors on semiconductor substrate
[NASA-CASE-NFS-20809] c23 N73-13660
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-NFS-20407] c09 N73-19235
- PHOTOTROPISM**
Phototropic composition of matter with sensitivity to ultraviolet light and usable for producing positive photographic images
[NASA-CASE-XGS-03736] c14 N72-22443
- PHOTOVISCOELASTICITY**
Photographic method for measuring viscoelastic strain in solid propellants and other materials
[NASA-CASE-XNP-01153] c32 N71-17645
- PHOTOVOLTAIC CELLS**
Sensor consisting of photocells mounted on pyramidal base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NFO-10373] c03 N71-18698
Use of thin film light detector
[NASA-CASE-NFO-11432-2] c35 N74-15090
Photovoltaic cell array
[NASA-CASE-NFS-22458-1] c44 N77-10635
Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593

PHOTOVOLTAIC EFFECT

Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c35 N74-15090

PHYSICAL EXERCISE

Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c52 N76-19785
Tread drum for animals
[NASA-CASE-ARC-10917-1] c37 N76-20485

PHYSICAL PROPERTIES

Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099

PHYSIOLOGICAL EFFECTS

Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119

PHYSIOLOGICAL TESTS

Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XFR-07172] c05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757

PHYSIOLOGY

Piezoelectric transducer for monitoring sound waves of physiological origin
[NASA-CASE-XMS-05365] c14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891

PIERCING

Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996

PIEZOELECTRIC CRYSTALS

Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c33 N74-20862

PIEZOELECTRIC TRANSDUCERS

Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
Describing crystal oscillator instrument for detecting condensable gas contaminants in vacuum apparatus
[NASA-CASE-NFO-10144] c14 N71-17701
Piezoelectric transducer for monitoring sound waves of physiological origin
[NASA-CASE-XMS-05365] c14 N71-22993
Miniature piezofunction semiconductor transducer with in situ stress coupling
[NASA-CASE-ERC-10087-2] c14 N72-31446

PIEZOELECTRICITY

Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-XNP-05429] c26 N71-21824
Miniature electromechanical junction transducer operating on piezofunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334

PIEZORESISTIVE TRANSDUCERS

Miniature solid state, direction sensitive, stress transducer design with bonded semiconductive piezoresistive element for sensing residual stresses

[NASA-CASE-XNP-02983] c14 N71-21091
Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490

PIGMENTS

Binder stabilized zinc oxide pigmented coating for spacecraft thermal control
[NASA-CASE-XNF-07770-2] c18 N71-26772

PILOT ERROR

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 N77-12031

PILOT TRAINING

Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XFR-04147] c11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662

PILOTS (PERSONNEL)

Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483

PINS

Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MFS-18495] c15 N72-11385

PINTLES

Describing metal valve pintle with encapsulated elastomeric body
[NASA-CASE-MSC-12116-1] c15 N71-17648

PIPE FLOW

Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c34 N77-32413

PIPELINES

Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Insulation for piping
[NASA-CASE-MSC-19523-1] c31 N76-16245

PIPES (TUBES)

Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XKS-03495] c14 N69-39785
Low thermal loss piping arrangement for moving cryogenic media through double chamber structure
[NASA-CASE-XNP-08882] c15 N69-39935
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
Mounting fixture for supporting thermobulb in pipeline
[NASA-CASE-NFO-10158] c33 N71-16356
Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-XNP-05114] c15 N71-17650
Sealed separable connection for thin wall metal tube
[NASA-CASE-NFO-10064] c15 N71-17693
Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536
Nonconductive tube as feed system for plasma thruster
[NASA-CASE-XLE-02902] c25 N71-21694
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-XNF-01083] c15 N71-22723
Description of portable milling tool for milling tube or pipe ends to desired shape and thickness
[NASA-CASE-XNF-03511] c15 N71-22799
Gage for measuring internal angle of flare on end of tube
[NASA-CASE-XNF-04415] c14 N71-24693
Method and apparatus for portable high precision magnetomotive bulging, constricting, and

- joining of large diameter metal tubes
[NASA-CASE-XMP-05114-3] c15 N71-24865
- Portable cutting machine for piping weld preparation
[NASA-CASE-XKS-07953] c15 N71-26134
- Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XMP-05114-2] c15 N71-26148
- Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-NFS-20068] c07 N71-27191
- Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330
- Torsional disconnect device for releasably coupling distal ends of fluid conduits
[NASA-CASE-NFO-10704] c15 N72-20445
- Open type urine receptacle with tubular housing
[NASA-CASE-NSC-12324-1] c05 N72-22093
- Measuring method for cutaneous perception using instrument with elongated tubular housing
[NASA-CASE-NSC-13609-1] c05 N72-25122
- Low mass truss structure with elongated thin-walled tubular segments
[NASA-CASE-LAR-10546-1] c11 N72-25287
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[NASA-CASE-ERC-10364] c18 N72-25540
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[NASA-CASE-ERC-10363] c18 N72-25541
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[NASA-CASE-XNP-08124-2] c06 N73-13129
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[NASA-CASE-LAR-10129-1] c15 N73-25512
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- Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c85 N74-34672
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[NASA-CASE-GSC-12077-1] c35 N77-24455
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[NASA-CASE-IAC-08494] c30 N71-15990
- Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
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- Continuous operation, single phased, induction plasma accelerator producing supersonic speeds
[NASA-CASE-XLA-01354] c25 N70-36946
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- Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
- Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
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[NASA-CASE-XNP-01185] c26 N73-28710
- Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
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[NASA-CASE-XNP-03332] c09 N71-10618
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- PLASMA DIAGNOSTICS**
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- Apparatus for measuring conductivity and velocity of plasma with multiple sensing coils positioned in plasma

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using radiation absorption
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positioned in plasma
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temperature electron plasma with homogenous
temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
Coaxial, high density, hypervelocity plasma
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Self-energized plasma compressor --- for
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[NASA-CASE-MFS-22145-1] c75 N75-13625
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[NASA-CASE-MFS-22145-2] c75 N76-17951
Continuous plasma laser --- method and apparatus
for producing intense, coherent, monochromatic
light from low temperature plasma
[NASA-CASE-IXP-04167-3] c36 N77-19416
- PLASMA GUNS**
Plasma spraying gun for forming diffusion bonded
metal or ceramic coatings on substrates
[NASA-CASE-XLS-01604-2] c15 N71-15610
- PLASMA JETS**
Method of preparing water purification membranes
--- polymerization of allyl amine as thin
films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
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torch and gas shutoff valve --- for satellite
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[NASA-CASE-XLE-10717] c37 N75-29426
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[NASA-CASE-MFS-22906-1] c75 N76-24001
- PLASMA LAYERS**
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through plasma sheath formed around spacecraft
during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
Method and apparatus for communicating through
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during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
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droplets into plasma layer surrounding space
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[NASA-CASE-XLA-01552] c07 N71-11284
- PLASMA POTENTIALS**
Method and apparatus for measuring potentials in
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[NASA-CASE-XLE-00821] c25 N71-15650
Method and apparatus for neutralizing potentials
induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429
- PLASMA PROBES**
Plasma probes having guard ring and primary
sensor at same potential to prevent stray wall
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[NASA-CASE-LEW-11694-1] c20 N75-18310
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density gradients of plasma sheath around
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[NASA-CASE-XLA-06232] c25 N71-20563
- Apparatus for producing monochromatic light from
continuous plasma source
[NASA-CASE-IXP-04167-2] c25 N72-24753
- PLASMA SHEATHS**
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measuring spacecraft electric field strength
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density gradients of plasma sheath around
space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563
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of carbon or graphite surfaces to prevent
oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
- PLASMA TEMPERATURE**
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using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156
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Apparatus for measuring conductivity and
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[NASA-CASE-XAC-05695] c25 N71-16073
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resin coating to irregular-shaped objects at
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Development and characteristics of system for
skin packaging articles using thermoplastic
film heating and vacuum operated equipment
[NASA-CASE-MFS-20855] c15 N73-27405
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[NASA-CASE-LEW-11496-1] c44 N77-14580
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[NASA-CASE-ARC-11040-1] c24 N77-19173
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- PLASTIC DEFORMATION**
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structures subjected to large deformations
involving low modulus substrate with thin
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[NASA-CASE-LAR-10765-1] c32 N73-20740
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tape for adaptation to special temperature
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[NASA-CASE-LEW-11072-1] c14 N73-24472
- PLASTICS**
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[NASA-CASE-XMS-05516] c15 N71-17803
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building and bridge structures, light and
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[NASA-CASE-XLA-03492] c15 N71-22713
Electrode sealing and insulation for fuel cells
containing caustic liquid electrolytes using
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[NASA-CASE-XMS-01625] c15 N71-23022
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hardening of organic matrix to form plastic
material into shaped product
[NASA-CASE-LAR-10121-1] c15 N71-26721
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[NASA-CASE-XLA-11154] c07 N72-21117
Molding apparatus --- for thermosetting plastic
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[NASA-CASE-LAR-10489-2] c31 N74-32920
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[NASA-CASE-ARC-10592-2] c27 N76-32315
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electrode cells --- rubber-ion transport sheeting
[NASA-CASE-LEW-12358-1] c44 N77-18560
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with plasma polymerized silicon-containing
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[NASA-CASE-ARC-10915-2] c27 N77-20256

- Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200
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[NASA-CASE-XLE-05130] c15 N69-21362
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[NASA-CASE-FRC-10081-1] c37 N77-14477
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[NASA-CASE-IGS-03120] c15 N71-24047
Metal plating process employing spraying of metallic powder/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NFO-11758-1] c31 N74-23065
- PLATINUM**
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[NASA-CASE-LAR-11042-1] c33 N75-27252
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[NASA-CASE-MSC-12327-1] c35 N77-27368
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[NASA-CASE-MFS-22671-2] c35 N77-17426
- PLENUM CHAMBERS**
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[NASA-CASE-NPS-14685] c31 N71-15689
Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457
- PLETHYSMOGRAPHY**
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N76-24525
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Plotter device for automatically drawing equipotential lines on sheet of resistance paper
[NASA-CASE-NFO-11134] c09 N72-21246
- PLOTTING**
Instrument for measuring potentials on two dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421
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Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117
- PLUGS**
Rocket chamber leak test fixture using tubular plug
[NASA-CASE-XPR-09479] c14 N69-27503
Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
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[NASA-CASE-NFO-10298] c12 N71-17661
Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
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[NASA-CASE-XMS-04843] c03 N69-21469
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[NASA-CASE-XLA-03271] c11 N69-24321
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[NASA-CASE-IBQ-01208] c15 N70-35409
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[NASA-CASE-XMS-10660-1] c15 N71-25975
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[NASA-CASE-MSC-11561-1] c05 N73-32014
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[NASA-CASE-ARC-10907-1] c37 N75-32465
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[NASA-CASE-MSC-11010] c15 N71-19485
Pneumatic cantilever beams and platform for space erectable structure
[NASA-CASE-XLA-01731] c32 N71-21045
Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
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[NASA-CASE-INP-06515] c14 N71-23227
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[NASA-CASE-MSC-12393-1] c02 N73-26006
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[NASA-CASE-MFS-20922-1] c18 N74-22136
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[NASA-CASE-ARC-10907-1] c37 N75-32465
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[NASA-CASE-IGS-05211] c07 N69-39980
X ray collimating structure for focusing radiation directly onto detector
[NASA-CASE-IBQ-04106] c14 N70-40240
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[NASA-CASE-NPO-10468] c23 N71-33229
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-1] c19 N76-18227
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[NASA-CASE-ARC-10716-1] c35 N77-20399
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Spin phase synchronization of cartwheel satellite in polar orbit
[NASA-CASE-IGS-05579] c31 N71-15676
- POLARIMETERS**
Automatic polarimeter capable of measuring transient birefringence changes in electro-optic materials
[NASA-CASE-INP-08883] c23 N71-16101
Two beam interferometer-polarimeter
[NASA-CASE-NFO-11239] c14 N73-12446
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NFO-13756-1] c35 N76-14434
- POLARITY**
Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-INP-08217] c03 N71-23239
Peak polarity selector for monitoring waveforms
[NASA-CASE-FRC-10010] c10 N71-24862
Precision full wave rectifier circuit for rectifying incoming electrical signals having positive or negative polarity with only positive output signals
[NASA-CASE-ARC-10101-1] c09 N71-33109
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[NASA-CASE-NFO-13140-1] c32 N75-24982
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[NASA-CASE-INP-00611] c09 N70-35219
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[NASA-CASE-GSC-11782-1] c74 N76-30053
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[NASA-CASE-XGS-02884] c15 N71-22705

POLLUTION CONTROL

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[NASA-CASE-NPO-13402-1] c37 N76-18457

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[NASA-CASE-NPO-13231-1] c45 N75-27585

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[NASA-CASE-LAR-11675-1] c45 N76-17656

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[NASA-CASE-NPO-13474-1] c45 N76-21742

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[NASA-CASE-LAR-11405-1] c45 N76-31714

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Process for producing flame resistant polyamides and products produced thereby
[NASA-CASE-MSC-16074-1] c27 N77-14262

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Synthesis of polyfluorobutadiene by polymerization of perfluorobutadiene with diisopropyl peroxydicarbonate
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Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NPO-10447] c06 N70-11252

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Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
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[NASA-CASE-GSC-12022-2] c44 N76-26695

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Carboxyl terminated polyester prepolymers and foams produced from prepolymers and materials
[NASA-CASE-NPO-10596] c06 N71-25929

Apparatus for forming drive belts
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[NASA-CASE-LRW-12363-1] c44 N76-19552

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Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
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[NASA-CASE-MFS-10507] c06 N73-30101

Preparation of fluorinated polyethers from 2-hydro-perhaloisopropyl alcohols
[NASA-CASE-MFS-11492] c06 N73-30102

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[NASA-CASE-LRW-12363-1] c44 N76-19552

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[NASA-CASE-LAR-11397-1] c27 N75-29263

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[NASA-CASE-LRW-11325-1] c06 N73-27980

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[NASA-CASE-NPO-10893] c27 N73-22710

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[NASA-CASE-NPO-10714] c06 N69-31244

Synthesis of siloxane containing epoxy polymers with low dielectric properties
[NASA-CASE-MFS-13994-1] c06 N71-11240

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Catalytic trimerization of aromatic nitriles and triaryl-S-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LRW-12053-1] c27 N74-34579

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[NASA-CASE-XNP-09763] c14 N71-20461

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[NASA-CASE-LRW-11065-2] c44 N76-14600

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[NASA-CASE-XMF-08655] c06 N71-11239

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[NASA-CASE-XMF-08656] c06 N71-11242

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[NASA-CASE-XMF-04133] c06 N71-20717

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[NASA-CASE-NPO-10862] c06 N72-22107

Silphenylenesiloxane polymer with in-chain perfluoroalkyl groups
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- [NASA-CASE-XLA-05541] c12 N71-26387
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Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NFO-11302-2] c32 N74-10132

Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c35 N74-17885

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c32 N75-21486

Compact bi-phase pulse coded modulation decoder
[NASA-CASE-MSC-10834-1] c33 N76-14371

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239

PULSE COMMUNICATION

Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-INP-00911] c08 N70-41961

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239

PULSE DURATION

Frequency to analog converters with unipolar field effect transistor for determining potential charge by pulse duration of input signal
[NASA-CASE-INP-07040] c08 N71-12500

Electrical testing apparatus for detecting amplitude and width of transient pulse
[NASA-CASE-INP-06519] c09 N71-12519

Design and development of variable pulse width multiplier
[NASA-CASE-XLA-02850] c09 N71-20447

Device for voltage conversion using controlled pulse widths and arrangements to generate ac output voltage
[NASA-CASE-MFS-10068] c10 N71-25139

One shot multivibrator circuit for producing long duration output pulses
[NASA-CASE-ARC-10137-1] c09 N71-28468

Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c33 N74-32711

PULSE DURATION MODULATION

Pulse duration modulation multiplier system
[NASA-CASE-IEB-09213] c07 N71-12390

Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084

Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-INP-05195] c10 N71-24861

Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and

- magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
- Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
- Load current sensor for series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c09 N72-25249
- PULSE FREQUENCY MODULATION**
Electric current measuring apparatus design including saturable core transformer and energy storage device to avoid magnetizing current errors from transformer output winding
[NASA-CASE-XGS-02439] c14 N71-19431
- Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
- Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
- Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696
- PULSE GENERATORS**
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
- Interrogator and current driver circuit for combination with transistor flip-flop circuit
[NASA-CASE-XGS-03058] c10 N71-19547
- Electric circuit for producing high current pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
- Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
- Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
- Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-XNP-00745] c10 N71-28960
- Pulse coupling circuit with switch between generator and winding
[NASA-CASE-LEW-10433-1] c09 N72-22197
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c38 N74-15395
- Random pulse generator
[NASA-CASE-MSC-14131-1] c33 N75-19515
- PULSE RATE**
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
- Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479
- PULSED LASERS**
Repetitively pulsed wavelength selective carbon dioxide laser
[NASA-CASE-EBC-10178] c16 N71-24832
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
- Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517
- Isotope separation using metallic vapor lasers
[NASA-CASE-NFO-13550-1] c36 N77-26477
- PULSED RADIATION**
Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NFO-10758] c14 N73-14427
- PULSES**
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NFO-11426] c07 N73-26119
- PUMP SEALS**
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
- Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c37 N74-10474
- PUMPS**
Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-XNP-05429] c26 N71-21824
- Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XNP-04042] c15 N71-23023
- Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042
- Development and characteristics of variable displacement fluid pump for transforming hydraulic pressures
[NASA-CASE-MFS-20830] c15 N71-30028
- Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c37 N74-27904
- PUNCHED CARDS**
Describing device for flagging punched business cards
[NASA-CASE-XLA-02705] c08 N71-15908
- Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
- PUNCHES**
Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811
- PURGING**
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
- Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
- Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
- Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849
- PURIFICATION**
Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
[NASA-CASE-XNP-06888] c15 N71-24044
- Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
- Water purification process
[NASA-CASE-ABC-10643-2] c51 N75-13506
- PURITY**
Synthesis of high purity dianilinosilanes
[NASA-CASE-XNP-06409] c06 N71-23230
- PUSH-PULL AMPLIFIERS**
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c33 N77-17351
- PYROGEN**
Molded composite pyrogen igniter for rocket motors
[NASA-CASE-LAR-12018-1] c20 N76-29365
- PYROLYSIS**
Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
[NASA-CASE-MSC-12669-1] c44 N76-16621
- PYROLYTIC GRAPHITE**
Multislot film cooled pyrolytic graphite rocket nozzle
[NASA-CASE-XNP-04389] c28 N71-20942
- PYROLYTIC MATERIALS**
Design, development, and characteristics of ablation structures
[NASA-CASE-XMS-01816] c33 N71-15623
- PYROMETERS**
Sensor device with switches for measuring surface recession of charring and noncharring ablators
[NASA-CASE-XLA-01781] c14 N69-39975
- PYROTECHNICS**
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on

spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
Development and characteristics of squib
actuated explosive disconnect for spacecraft
release from launch vehicle
[NASA-CASE-NFO-11330] c33 N73-26958

Q

Q SWITCHED LASERS

Optically detonated explosive device
[NASA-CASE-NFO-11743-1] c28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LFW-12164-1] c36 N77-32478

Q VALUES

Design of active RC network capable of operating
at high Q values with reduced sensitivity to
gain amplification and number of passive
components
[NASA-CASE-ARC-10042-2] c10 N72-11256

QUADRATIC PROGRAMMING

Quadrature demodulation
[NASA-CASE-GSC-12137-1] c32 N77-27272

QUADRATURES

Automatic quadrature control and measuring system
--- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c35 N74-21017

QUALITATIVE ANALYSIS

Ultraviolet chromatographic detector for
quantitative and qualitative analysis of
compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
Analysis of volatile organic compounds --- trace
amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161

QUANTITATIVE ANALYSIS

Mixed liquid and vapor phase analyzer design
with thermocouples for relative heat transfer
measurement
[NASA-CASE-NFO-10691] c14 N71-26199
Quantitative liquid measurements in container by
resonant frequencies
[NASA-CASE-INE-02500] c18 N71-27397
Ultraviolet chromatographic detector for
quantitative and qualitative analysis of
compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
Nondispersive gas analysis using radiation
detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Analysis of volatile organic compounds --- trace
amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c23 N77-17161

QUANTUM THEORY

III-V photocathode with nitrogen doping for
increased quantum efficiency
[NASA-CASE-NFO-12134-1] c33 N76-31409

QUARTZ

Ultraviolet filter of thorium fluoride and
cryolite on quartz base
[NASA-CASE-IMP-02340] c23 N69-24332
Method for attaching a fused-quartz mirror to a
conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260

QUARTZ LAMPS

High intensity heat and light unit containing
quartz lamp elements protectively positioned
to withstand severe environmental stress
[NASA-CASE-XIA-00141] c09 N70-33312
Light shield and cooling apparatus --- high
intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066

R

RACKS (FRAMES)

Design and development of test stand system for
supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267
Thrust-isolating mounting --- characteristics of
support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c18 N74-27397

RADAR ANTENNAS

Interferometric tuning acquisition and tracking
radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
Variable beamwidth antenna --- with multiple
beams, variable feed system
[NASA-CASE-GSC-11862-1] c32 N76-18295

Highly efficient antenna system using a
corrugated horn and scanning hyperbolic
reflector
[NASA-CASE-NFO-13568-1] c32 N76-21365

RADAR ATTENUATION

FM/CW radar system
[NASA-CASE-MFS-22234-1] c32 N76-33364

RADAR DATA

Charge-coupled device data processor for an
airborne imaging radar system
[NASA-CASE-NFO-13587-1] c32 N77-32342

RADAR ECHOES

Charge-coupled device data processor for an
airborne imaging radar system
[NASA-CASE-NFO-13587-1] c32 N77-32342

RADAR EQUIPMENT

Spacecraft transponder and ground station radar
system for mapping planetary surfaces
[NASA-CASE-NFO-11001] c07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c32 N76-33364

RADAR IMAGERY

Method of locating persons in distress --- by
using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c32 N77-21267

RADAR RANGE

Radar signal receiver arrangement for extending
range and increasing signal to noise ratio
[NASA-CASE-IMP-00748] c07 N70-36911

RADAR RECEIVERS

Polarization diversity monopulse tracking
receiver design without radio frequency switches
[NASA-CASE-IGS-03501] c09 N71-20864

RADAR RECEPTION

Radar signal receiver arrangement for extending
range and increasing signal to noise ratio
[NASA-CASE-IMP-00748] c07 N70-36911

RADAR REFLECTORS

Inflatable radar reflector unit - lightweight,
highly reflective to electromagnetic
radiation, and adaptable for erection and
deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
Method of locating persons in distress --- by
using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c32 N77-21267

RADAR TRACKING

Tracking antenna system with array for
synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Polarization diversity monopulse tracking
receiver design without radio frequency switches
[NASA-CASE-IGS-03501] c09 N71-20864
Monopulse tracking system with antenna array of
three radiators for deriving azimuth and
elevation indications
[NASA-CASE-IGS-01155] c10 N71-21483
Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117

RADAR TRANSMITTERS

High resolution radar transmitting system for
transmitting optical pulses to targets
[NASA-CASE-NFO-11426] c07 N73-26119

RADIAL FLOW

Radial heat flux transformer for use in heating
and cooling processes
[NASA-CASE-NFO-10828] c33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c37 N76-18459

RADIANCE

Method and apparatus for measuring shock layer
radiation distribution about high velocity
objects
[NASA-CASE-XAC-02970] c14 N69-39896

RADIANT COOLING

Direct radiation cooling of linear beam
collector tubes
[NASA-CASE-IMP-09227] c15 N69-24319
High thermal emittance black surface coatings
and process for applying to metal and metal
alloy surfaces used in radiative cooling of
spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Method for attaching a fused-quartz mirror to a
conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260

RADIANT FLUX DENSITY

High intensity radiant energy pulse source for
calibrating heat transfer gages with

- thermoluminescent shutter activation
[NASA-CASE-ARC-10178-1] c09 N72-17152
- RADIANT HEATING**
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312
High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
Unfired ceramic insulation for protection from radiant heating environments
[NASA-CASE-NFS-14253] c33 N71-24858
- RADIATION**
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NFO-11493] c14 N73-12447
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-2] c60 N76-18803
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c60 N77-32731
- RADIATION ABSORPTION**
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
Differential optoacoustic absorption detector
[NASA-CASE-NFO-13759-1] c35 N77-11363
- RADIATION COUNTERS**
Particle detector for indicating incidence and energy of minute space particles
[NASA-CASE-XLA-00135] c14 N70-33322
Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297
Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808
Particle beam power density detection and measurement apparatus
[NASA-CASE-XLE-00243] c14 N70-38602
Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNF-03128] c10 N70-41991
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328
Radiation or charged particle detector and amplifier
[NASA-CASE-NFO-12128-1] c14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c35 N74-26949
- RADIATION DAMAGE**
Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c33 N74-27682
- RADIATION DETECTORS**
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-RSC-12280] c27 N71-16348
Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
- Circuit design for determining amount of photomultiplier tube light detection utilizing variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Radiation source tracker comprised of sectorized matrix of detectors with output voltages corresponding to irradiance levels
[NASA-CASE-NFO-11686] c14 N73-25462
Radiation or charged particle detector and amplifier
[NASA-CASE-NFO-12128-1] c14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-NFS-21577-1] c19 N74-29410
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NFO-13327-1] c35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAE-10907-1] c35 N76-29551
- RADIATION DISTRIBUTION**
Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675
- RADIATION DOSAGE**
Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430
- RADIATION EFFECTS**
Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XLA-04555-1] c14 N71-25892
- RADIATION HARDENING**
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329
- RADIATION MEASUREMENT**
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NFO-11493] c14 N73-12447
- RADIATION MEASURING INSTRUMENTS**
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, computer, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
Infrared scanning system for maintaining spacecraft orientation with earth reference
[NASA-CASE-XLA-00120] c21 N70-33181
Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
Development of method for improving signal to noise ratio and accuracy of Wheatstone bridge type radiation measuring instrument
[NASA-CASE-XLA-02810] c14 N71-25901
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NFO-11493] c14 N73-12447
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-NFS-20407] c09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LFW-11159-1] c14 N73-28488
Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect

[NASA-CASE-MFS-21441-1] c14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c35 N74-26949

RADIATION MEDICINE
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c25 N76-27383

RADIATION PROTECTION
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-IMP-01310] c33 N71-28852
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c33 N74-27682

RADIATION SHIELDING
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Describing hot filament type Bayard-Alpert ionization gage with ion collector buried or removed from grid structure
[NASA-CASE-XLA-07424] c14 N71-18482
Sealed housing for protecting electronic equipment against electromagnetic interference
[NASA-CASE-MSC-12168-1] c09 N71-18600
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066

RADIATION SOURCES
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-IMP-03934] c09 N71-22985
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
Radiation source tracker comprised of sectorized matrix of detectors with output voltages corresponding to irradiance levels
[NASA-CASE-NFO-11686] c14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410

RADIATION SPECTRA
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041

RADIATION THERAPY
A cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c52 N77-26796

RADIATION TOLERANCE
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XIE-02792] c26 N71-10607
Improving radiation resistance of silicon semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730

RADIATIVE HEAT TRANSFER
Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XIE-03307] c33 N71-14035
Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and

ionized high temperature gases
[NASA-CASE-IMP-09802] c33 N71-1564
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-IMP-02923] c28 N71-23081

RADIATORS
Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations
[NASA-CASE-XHC-03673] c33 N71-29046

RADIO ANTENNAS
Low loss parasitic probe antenna for prelaunch tests of spacecraft antennas
[NASA-CASE-IKS-09348] c09 N71-13521
VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-IKS-09340] c07 N71-24614
Development and characteristics of extensible dipole antenna using deformable tubular metallic strip element
[NASA-CASE-HCN-00937] c07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NFC-13568-1] c32 N76-21365

RADIO ASTRONOMY
Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-IMP-09832] c30 N71-23723

RADIO COMMUNICATION
A system for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c32 N77-22314

RADIO CONTROL
Radio frequency controlled solid state switch
[NASA-CASE-ARC-10136-1] c09 N72-22202

RADIO EQUIPMENT
A system for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c32 N77-22314

RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-IGS-02816] c07 N69-24323
Automatic gain control amplifier system
[NASA-CASE-IMS-05307] c09 N69-24330
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-IMP-09422] c07 N71-19436
Development of automatic frequency discriminators and control for phase lock loop providing frequency preset capabilities
[NASA-CASE-IMP-08665] c10 N71-19467
System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-IGS-02610] c14 N71-23174
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-IGS-01418] c09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-IMP-09830] c14 N71-26266
High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
Radio frequency source resistance measuring instruments of varied design
[NASA-CASE-NFO-11291-1] c14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c32 N76-14341
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NFO-13479-1] c35 N77-10492

RADIO FREQUENCY DISCHARGE
Process for preparing higher oxides of the alkali and alkaline earth metals --- using radio frequency discharge sustained in oxygen
[NASA-CASE-ARC-10992-1] c25 N77-17178

RADIO FREQUENCY INTERFERENCE
Radio frequency noise generator having microwave

- slow-wave structure in gas discharge plasma
[NASA-CASE-XFR-11019] c09 N71-23598
- System for interference signal nulling by
polarization adjustment
[NASA-CASE-NFO-13140-1] c32 N75-24982
- Systems and methods for determining radio
frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247
- Apparatus and method for determining the
position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
- RADIO FREQUENCY SHIELDING**
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
- Process for making RF shielded cable connector
assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083
- RADIO RECEIVERS**
Radio receiver with array of independently
steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
- Development of optimum pre-detection diversity
combining receiving system adapted for use
with amplitude modulation, phase modulation,
and frequency modulation systems
[NASA-CASE-XGS-00740] c07 N71-23098
- Very narrow band width receiver
[NASA-CASE-GSC-12142-1] c32 N77-20299
- RADIO RELAY SYSTEMS**
Satellite radio communication system with remote
steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
- Systems and methods for determining radio
frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247
- RADIO SIGNALS**
Erectable, inflatable, radio signal reflecting
passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
- Synchronous detection system for detecting weak
radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
- RADIO SOURCES (ASTRONOMY)**
Conical scan tracking system employing a large
antenna --- for tracking spacecraft or radio
sources
[NASA-CASE-NFO-14009-1] c32 N77-28357
- RADIO STARS**
System generating sidereal frequency signals
from signals of standard solar frequency
without use of mixing operations or feedback
loops
[NASA-CASE-XGS-02610] c14 N71-23174
- RADIO TELEMETRY**
Digital telemetry system apparatus to reduce
tape recorder wcv and flutter noise during
playback
[NASA-CASE-XGS-01812] c07 N71-23001
- RADIO TRANSMITTERS**
Vehicle locating system utilizing AM
broadcasting station carriers
[NASA-CASE-NFO-13217-1] c32 N75-26194
- Aircraft-mounted crash-activated transmitter
device
[NASA-CASE-MFS-16609-3] c03 N76-32140
- RADIO WAVES**
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
- RADIOACTIVE ISOTOPES**
Thermally cascaded thermoelectric generator with
radioisotopic heat source
[NASA-CASE-NFO-10753] c03 N72-26031
- Protected isotope heat source --- for
atmospheric reentry protection and heat
transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
- RADIOBIOLOGY**
Production of I-123 for use as
radiopharmaceutical for low radiation exposure
[NASA-CASE-LEW-10516-1] c24 N72-33681
- RADIOGRAPHY**
Nondestructive radiographic tests of resistance
welds
[NASA-CASE-XNP-02588] c15 N71-18613
- Method and system for in vivo measurement of
bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
- RADIOLYSIS**
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c37 N76-18458
- RADIOMETERS**
Miniaturized radiometer for detecting low level
thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
- Black body radiometer design with temperature
sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
- Black body radiometer having isothermally
surrounded cavity for ultraviolet, visible,
and infrared radiation
[NASA-CASE-NFO-10810] c14 N71-27323
- Thermoelectric radiometer using polymer film
as capacitor
[NASA-CASE-ARC-10138-1] c14 N72-24477
- Development of radiant energy sensor to detect
the radiant energy wavelength bands from
portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
- Development of radiometric sensor to warn
aircraft pilots of region of clear air
turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
- Radiometric measuring system for solar activity
and atmospheric attenuation and emission
[NASA-CASE-ERC-10276] c14 N73-26432
- Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c34 N74-27861
- RADIOSONDES**
Induction powered biological radiosonde --- for
measuring intracranial pressure
[NASA-CASE-ARC-11120-1] c52 N77-23743
- RAIN**
Precipitation detector and mechanism for
stopping and restarting machinery at
initiation and cessation of rain
[NASA-CASE-XLA-02619] c10 N71-26334
- RANJET ENGINES**
Telescoping-spike supersonic nozzle for turbojet
or ranjet engines
[NASA-CASE-XIE-00005] c28 N70-39899
- RAMPES (STRUCTURES)**
Automated multi-level vehicle parking system
[NASA-CASE-NFO-13058-1] c37 N77-22480
- RANDOM LOADS**
Fatigue testing device applying random discrete
load levels to test specimen and applicable to
aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
- RANDOM NOISE**
Circuits for amplitude limiting of random noise
inputs
[NASA-CASE-NFO-10169] c10 N71-24844
- Digital servo control of random sound test
excitation --- in reverberant acoustic chamber
[NASA-CASE-NFO-11623-1] c71 N74-31148
- Random pulse generator
[NASA-CASE-MSC-14131-1] c33 N75-19515
- Pseudo noise code and data transmission method
and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308
- RANGE (EXTREMES)**
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319
- RANGE FINDERS**
Closed loop radio communication ranging system
to determine distance between moving airborne
vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
- Digital demodulator-correlator --- for
ranging
[NASA-CASE-NFO-13982-1] c32 N77-24341
- RANGEFINDING**
Equipment for testing of ground station ranging
equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
- Spacecraft ranging system
[NASA-CASE-NFO-10066] c09 N71-18598
- Binary coded sequential acquisition ranging
system for distance measurements
[NASA-CASE-NFO-11194] c08 N72-25209
- Loop transponder for regenerating code of
bu-type ranging system
[NASA-CASE-NFO-11707] c07 N73-25161
- Orbital and entry tracking accessory for glches
--- to provide range requirements for reentry
vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015

RARE EARTH COMPOUNDS

Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity
[NASA-CASE-XGS-03505] c03 N71-10608

RARE GASES

Inert gas metallic vapor laser
[NASA-CASE-NFC-13449-1] c36 N75-32441
Hydrogen-fueled engine
[NASA-CASE-NFO-13763-1] c37 N77-11398

RAREFIED GAS DYNAMICS

Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245

RAREFIED GASES

Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184

RATES (PER TIME)

Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217

RC CIRCUITS

RC transistor circuit to indicate each pulse of pulse train and occurrence of nth pulse
[NASA-CASE-XNF-00906] c09 N70-41655

Device utilizing RC rate generators for continuous slow speed measurement
[NASA-CASE-XNF-02966] c10 N71-24863

Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739

Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256

Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171

RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172

Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245

Temperature control system comprised of wheatstone bridge with RC circuit
[NASA-CASE-NFO-11304] c14 N73-26430

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520

REACTION CONTROL

Development of voice operated controller for controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160

REACTION WHEELS

Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082

Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324

REACTIVITY

Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597

REACTOR CORES

Simulated fuel assembly-type flow measurement apparatus for coolant flow in reactor core
[NASA-CASE-XLE-00724] c14 N70-34669

Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00304] c14 N70-36808

Reactor heated in-core diodes for energy conversion
[NASA-CASE-NFO-10542] c09 N72-27228

REACTOR DESIGN

Nonequilibrium radiation nuclear reactor
[NASA-CASE-BQN-10801-1] c73 N75-22108

REACTOR MATERIALS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N77-20201

REACTOR TECHNOLOGY

Nuclear reactor control rod assembly with improved driving mechanism
[NASA-CASE-XLE-00298] c22 N70-34501

READOUT

Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864

System for checking status of several double-throw switches by readout indications
[NASA-CASE-XLA-08799] c10 N71-27272

REAL TIME OPERATION

Respiratory analysis system to determine gas flow rate and frequency of respiration and expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015

Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153

Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118

Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328

Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c35 N75-29380

Real time analysis of voiced sounds
[NASA-CASE-NFO-13465-1] c32 N76-31372

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N77-17701

Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c35 N77-31465

RECEIVERS

Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616

Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NFO-11593-1] c07 N73-28012

Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NFO-11628-1] c07 N73-30113

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NFO-11921-1] c32 N74-30523

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249

Receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-1] c32 N77-12248

Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346

RECONSTRUCTION

Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-FRC-10020] c16 N71-26154

RECORDING HEADS

Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NFO-10711-1] c35 N77-21392

RECORDING INSTRUMENTS

Weighing and recording device for obtaining precise automatic record of small changes in force
[NASA-CASE-XLA-02605] c14 N71-10773

Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317

Helical recorder for multiple channel recording
[NASA-CASE-GSC-10614-1] c09 N72-11224

Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NFO-11317-2] c36 N74-13205

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946

Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c35 N74-32877

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410

RECOVERABILITY

Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c35 N74-16135

RECOVERABLE LAUNCH VEHICLES

Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections

[NASA-CASE-IXF-00389] c31 N70-34176

RECOVERABLE SPACECRAFT

Describing assembly for opening stabilizing and decelerating flaps of flight capsules used in space research

[NASA-CASE-IXF-03169] c31 N71-15675

RECOVERY PARACHUTES

Parachute system for lowering manned spacecraft from post-reentry to ocean landing

[NASA-CASE-XLA-00195] c02 N70-38009

Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry

[NASA-CASE-LAR-10549-1] c31 N73-13898

RECTANGULAR PANELS

Rectangular solar cell stacked panels to generate electrical power aboard spacecraft

[NASA-CASE-WFO-11771] c03 N73-20040

RECTIFIERS

Lithium drifted silicon radiation detector with gold rectifying contacts

[NASA-CASE-XLE-10529] c14 N69-23191

Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation

[NASA-CASE-IXF-02713] c10 N69-39888

Precision full wave rectifier circuit for rectifying incoming electrical signals having positive or negative polarity with only positive output signals

[NASA-CASE-ARC-10101-1] c09 N71-33109

Voltage amplitude-responsive trigger circuit with silicon controlled rectifier

[NASA-CASE-GSC-10221-1] c09 N72-23171

Dc to ac to dc converter with transistor driven synchronous rectifiers

[NASA-CASE-GSC-11126-1] c09 N72-25253

REDUCED GRAVITY

Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks

[NASA-CASE-XIE-02624] c12 N69-39988

Apparatus for measuring human body mass in zero or reduced gravity environment

[NASA-CASE-XNS-03371] c05 N70-42000

Cable suspension and inclined walkway system for simulating reduced or zero gravity environments

[NASA-CASE-XLA-01787] c11 N71-16028

Development of restraint system for securing personnel to ergometer while exercising under weightless conditions

[NASA-CASE-MFS-21046-1] c14 N73-27377

REDUCTION (CHEMISTRY)

Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacuum

[NASA-CASE-XLE-06461] c17 N72-22530

Process for making anhydrous metal halides

[NASA-CASE-LEW-11860-1] c37 N76-18458

REDUNDANT COMPONENTS

Redundant memory for enhanced reliability of digital data processing system

[NASA-CASE-GSC-10564] c10 N71-29135

REELS

Tetherline system for orbiting satellites

[NASA-CASE-MFS-23564-1] c13 N77-11079

Method and apparatus for measuring web material wound on a reel

[NASA-CASE-GSC-11902-1] c38 N77-17495

REENTRY COMMUNICATION

Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry

[NASA-CASE-XLA-01400] c07 N70-41331

Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres

[NASA-CASE-XIA-01127] c17 N70-41372

Reentry communication by injection of water droplets into plasma layer surrounding space vehicle

[NASA-CASE-XLA-01552] c07 N71-11284

REENTRY SHIELDING

Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding

[NASA-CASE-XNS-02677] c31 N70-42075

Method and apparatus for fabrication of heat insulating and ablative reentry structure

[NASA-CASE-XNS-02009] c33 N71-20834

Ablative heat shield for protection from aerodynamic heating of reentry spacecraft

[NASA-CASE-MSC-12143-1] c33 N72-17947

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft

[NASA-CASE-LEW-11227-1] c73 N75-30876

REENTRY TRAJECTORIES

Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities

[NASA-CASE-XNS-04142] c31 N70-41631

REENTRY VEHICLES

Leading edge design for hypersonic reentry vehicles

[NASA-CASE-XLA-00165] c31 N70-33242

Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds

[NASA-CASE-XLA-00241] c31 N70-37986

Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities

[NASA-CASE-XLA-03273] c14 N71-18699

Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres

[NASA-CASE-XLA-01791] c14 N71-22991

Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere

[NASA-CASE-XIA-04901] c31 N71-24315

Development of auxiliary lifting system to provide ferry capability for entry vehicles

[NASA-CASE-LAR-10574-1] c11 N73-13257

Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry

[NASA-CASE-LAR-10549-1] c31 N73-13898

Three-component ceramic coating for silica insulation

[NASA-CASE-MSC-14270-2] c27 N76-23426

REFERENCE SYSTEMS

Automatic frequency control device for providing frequency reference for voltage controlled oscillator

[NASA-CASE-KSC-10393] c09 N72-21247

Magnetic heading reference

[NASA-CASE-LAR-11387-2] c04 N77-19056

REFINING

Helium refining by superfluidity

[NASA-CASE-IXF-00733] c06 N70-34946

REFLECTANCE

Optical characteristics measuring apparatus

[NASA-CASE-IXF-08840] c23 N71-16365

Device for determining acceleration of gravity by interferometric measurement of travel of falling body

[NASA-CASE-IXF-05844] c14 N71-17587

Highly stable optical mirror assembly optimizing image quality of light diffraction patterns

[NASA-CASE-ERC-10001] c23 N71-24868

Transmitting and reflecting diffuser

[NASA-CASE-LAR-10385-3] c23 N73-32538

REFLECTED WAVES

Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces

[NASA-CASE-MFS-20243] c43 N73-13662

Clear air turbulence detector

[NASA-CASE-MFS-21244-1] c36 N75-15028

Reflected-wave maser --- low noise amplifier

[NASA-CASE-WFO-13490-1] c36 N76-31512

REFLECTING TELESCOPES

Three-mirror telescope

[NASA-CASE-MFS-23675-1] c74 N77-28937

REFLECTION

Vacuum preparation of zinc titanate pigment resistant to loss of reflective properties

[NASA-CASE-MFS-13532] c18 N72-17532

Solar cell surface treatment

[NASA-CASE-LEW-11330-1] c44 N76-14612

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas

- [NASA-CASE-ABC-10631-1] c74 N76-20958
- REFLECTOMETERS**
- Ellipsoidal mirror reflector for measuring reflectance
[NASA-CASE-XGS-05291] c23 N71-16341
- Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-WFS-23118-1] c35 N77-31465
- REFLECTORS**
- Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
- Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
- Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
- Conical reflector antenna with feed approximating line source
[NASA-CASE-WFO-10303] c07 N72-22127
- Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
- Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-WFO-11264] c07 N72-25174
- Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-WFC-11661] c07 N73-14130
- Schlieren system employing antiparallel reflector in the forward direction
[NASA-CASE-ABC-10971-1] c09 N76-26224
- REFRACTOMETERS**
- Particle size spectrometer and refractometer
[NASA-CASE-WFC-13614-1] c35 N75-19628
- REFRACTORY MATERIALS**
- Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
- Method for producing refractory molybdenum disilicides
[NASA-CASE-XMS-00370] c17 N71-20941
- Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-XNP-02888] c18 N71-21068
- Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-06476-1] c26 N72-17820
- Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-WFS-20710] c11 N72-23215
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LFW-12053-1] c27 N74-34579
- REFRACTORY METALS**
- Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
- Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LFW-10393-1] c17 N71-15468
- Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
- Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
- Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
- Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
- Silicide coating process and composition for protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040
- Development of procedure for improved distribution of refractory compounds and micro-constituents in refractory metal matrix
[NASA-CASE-XLE-03940-2] c17 N72-28536
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LFW-11179-1] c27 N76-16229
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LFW-11169-1] c37 N76-23570
- REFRIGERATING**
- Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-WFO-10634] c23 N72-25619
- REFRIGERATING MACHINERY**
- Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-WFO-10309] c15 N69-23190
- Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
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satellite about selected axis after reaching
predetermined orientation
[NASA-CASE-BGN-00936] c31 N71-29050
- SATELLITE TELEVISION**
Adaptive signal-generating system and logic
circuits for satellite television systems
[NASA-CASE-GSC-11367] c10 N71-26374
- SATELLITE TRACKING**
Design and development of tracking receiver for
tracking satellites and receiving radio signal
transmissions under adverse noise conditions
[NASA-CASE-XGS-08679] c10 N71-21473
Simultaneous acquisition of tracking data from
two stations
[NASA-CASE-NFO-13292-1] c32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472
- SATELLITE TRANSMISSION**
Asynchronous, multiplexing, single line
transmission and recovery data system --- for
satellite use
[NASA-CASE-NFO-13321-1] c32 N75-26195
- SATELLITE-BORNE PHOTOGRAPHY**
Rotary sclenoid shutter drive assembly and
rotary inertia damper and stop plate assembly
--- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c33 N74-20861
- SATURATION**
Saturable magnetic core and signal detection for
indicating impending saturation
[NASA-CASE-ERC-10089] c23 N72-17747
- SAWTOOTH WAVEFORMS**
Linear sawtooth voltage wave generator with
transistor timing circuit having capacitor and
zener diode feedback loops
[NASA-CASE-XMS-01155] c09 N70-41675
- SCANNERS**
Electronic and mechanical scanning control
system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Electronic background suppression field scanning
sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980
Electron beam scanning system for improved image
definition and reduced power requirements for
video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539
- Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
Monopulse scanning network for scanning
volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
High speed scanner for measuring mass of
preselected gases at high sampling rate
[NASA-CASE-LAR-10766-1] c14 N72-21432
Scan oscilloscope for mapping surface
sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c35 N74-10415
Apparatus for scanning the surface of a
cylindrical body
[NASA-CASE-NFO-11861-1] c36 N74-20009
Fast scan control for deflection type mass
spectrometers
[NASA-CASE-LAR-11428-1] c35 N74-34857
Magnetometer --- with an automatic scanning
transducer
[NASA-CASE-LAR-11617-2] c35 N77-17430
- SCANNING**
Conversion system for transforming slow scan
rate of Apollo TV camera on moon to fast scan
of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
Operation of vidicon tube for scanning spatial
charge density pattern
[NASA-CASE-XNP-06028] c09 N71-23189
Position determination systems --- using orbital
antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
- SCHLIEREN PHOTOGRAPHY**
Schlieren system employing antiparallel
reflector in the forward direction
[NASA-CASE-ARC-10971-1] c09 N76-26224
- SCHOOLS**
Silent alarm system for multiple room facility or
school
[NASA-CASE-NFO-11307-1] c10 N73-30205
- SCHOTTKY DIODES**
High voltage, high current Schottky barrier
solar cell
[NASA-CASE-NEC-13482-1] c44 N74-30448
Improved backwall cell
[NASA-CASE-LEW-12236-1] c44 N77-17565
Method for fabricating solar cells having
integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
- SCOOPS**
Aeroflexible wing structure with air scoop for
inflating stiffeners with ram air
[NASA-CASE-XIA-06095] c01 N69-39981
- SCREWS**
Electromechanical control actuator system using
double differential screws
[NASA-CASE-ERC-10022] c15 N71-26635
Adjustable support device with jacket screw for
altering distance between base and supported
member
[NASA-CASE-NFO-10721] c15 N72-27484
- SCRUBERS**
Developing high pressure gas purification and
filtration system for use in test operations
of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
Process for removing sulfur dioxide from gas
streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668
- SEA ICE**
Laser technique for breaking ice in ship path
[NASA-CASE-LAR-10815-1] c16 N72-22520
- SEALERS**
Design and development of flexible joint for
pressure suits
[NASA-CASE-XMS-09636] c05 N71-12344
Epoxy resin sealing device for electrochemical
cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Leak resistant bonded elastomeric seal for
secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
Self lubricating fluoride-metal composite
materials for outer space applications

- [NASA-CASE-XLE-08511] c18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
- [NASA-CASE-MFS-22355-1] c23 N76-15268
Flame-resistant liquid oxygen compatible neoprene rubber composition
- [NASA-CASE-KSC-11020-1] c27 N77-23267
SEALING
Foil seal between parts moving relative to each other
[NASA-CASE-XIF-05130] c15 N69-21362
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-IMP-03378] c03 N71-11051
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-IMI-03290] c15 N71-23256
Segmented sealing surface in valve seat
[NASA-CASE-NNO-10606] c15 N72-25451
SEALS (STOPPERS)
Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
Flexible inflatable seal for butterfly valves
[NASA-CASE-XIF-00101] c15 N70-33376
Shrink-fit vacuum system gas valve
[NASA-CASE-XGS-00587] c15 N70-35087
Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads
[NASA-CASE-XLE-04677] c15 N71-10577
Fluid seal formed by flexible disk on rotating shaft to retain lubricating oils around shaft
[NASA-CASE-XIF-05130-2] c15 N71-19570
Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 N71-26133
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-IMP-02862-1] c15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c37 N75-21631
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c37 N76-20488
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
Gas path seal --- for use with turbine engines
[NASA-CASE-LEW-12131-1] c37 N77-24498
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c37 N77-27404
SEAMS (JOINTS)
Sealing apparatus for joining two pieces of frangible materials
[NASA-CASE-XIA-01494] c15 N71-24164
Cold restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LPR-10170-1] c37 N74-11301
SEAT BELTS
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915
SEATS
A seat cushion to provide realistic acceleration cues for aircraft simulator pilots
[NASA-CASE-LAR-12149-1] c54 N77-31787
SECTIONS
Journal Bearings
[NASA-CASE-LEW-11076-2] c37 N74-32921
SEDIMENTARY ROCKS
In-situ laser retorting of oil shale
[NASA-CASE-LRW-12217-1] c36 N77-18429
SEGMENTS
Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
SEISMIC WAVES
Determining sway of buildings by low frequency device using pendulum
[NASA-CASE-IMP-00479] c14 N70-34794
SELECTORS
Selector mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XIF-01533] c11 N71-10777
Peak polarity selector for monitoring waveforms
[NASA-CASE-FEC-10010] c10 N71-24862
SELF ALIGNMENT
Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections
[NASA-CASE-IMP-00908] c14 N70-40238
SELF ERECTING DEVICES
Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-XIA-00686] c31 N70-34135
Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XIA-00678] c31 N70-34296
Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XIA-00258] c31 N70-38676
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XIF-00620] c32 N70-41579
Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
SELF LUBRICATING MATERIALS
Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984
SELF LUBRICATION
Bearing material
[NASA-CASE-LEW-11930-2] c24 N76-26282
SELF MANEUVERING UNITS
Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
Lightweight propulsion unit for movement of personnel and equipment across lunar surface
[NASA-CASE-MFS-20130] c28 N71-27585
SELF PROPAGATION
Self-generating optical frequency waveguide
[NASA-CASE-BQN-10541-1] c07 N71-26251
SELF SEALING
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c54 N74-14845
SEMICONDUCTOR DEVICES
Fixture for simultaneously supporting several components for electrical testing
[NASA-CASE-IMP-06032] c09 N69-21926
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XIA-04980] c09 N69-27422
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-BEC-10072] c09 N70-11148
Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Separation of semiconductor wafer into chips bounded by scribe lines
[NASA-CASE-BEC-10138] c26 N71-14354
Voltage tunable Gunn effect semiconductor for microwave generation
[NASA-CASE-XIF-07894] c09 N71-18721

- Indicator device for monitoring charge of wet cell battery, using semiconductor light emitter and photodetector
[NASA-CASE-NFO-10194] c03 N71-20407
- Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
- Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XIA-04555-1] c14 N71-25892
- Development and characteristics of fluid oscillator analog to digital converter with variable frequency controlled by signal passing through conditioning circuit
[NASA-CASE-LEW-10345-1] c10 N71-25899
- Volume displacement transducer for leak detection in hermetically sealed semiconductor devices
[NASA-CASE-FRC-10033] c14 N71-26672
- Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126
- Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-FRC-10150] c14 N71-28992
- Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-08476-1] c26 N72-17820
- Single crystal film semiconductor devices
[NASA-CASE-FRC-10222] c09 N72-22199
- Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25447
- Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
- Miniature piezoelectric semiconductor transducer with in situ stress coupling
[NASA-CASE-FRC-10087-2] c14 N72-31446
- Development and characteristics of hermetically sealed coaxial package for containing microwave semiconductor components
[NASA-CASE-GSC-10791-1] c15 N73-14469
- Semiconductor projectile impact detector
[NASA-CASE-HFS-23008-1] c35 N76-19405
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c76 N76-25049
- An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-HFS-23315-1] c76 N76-32029
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589
- SEMICONDUCTOR JUNCTIONS**
- Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
- Miniature electromechanical junction transducer operating on piezoelectric effect and utilizing epoxy for stress coupling component
[NASA-CASE-FRC-10087] c14 N71-27334
- Resin for protecting p-n semiconductor junction surface
[NASA-CASE-FRC-10339-1] c18 N73-30532
- SEMICONDUCTORS (MATERIALS)**
- Role mobility of deposited semiconductor films in vacuum utilizing thermal gradient
[NASA-CASE-XKS-04614] c15 N69-21460
- Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-HSC-12259-1] c07 N70-12616
- Improved semiconductor multivibrator circuit which approaches 100 percent efficiency
[NASA-CASE-XAC-00942] c10 N71-16042
- Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XMF-01016] c26 N71-17818
- Binding layer of semiconductor particles by electrodeposition
[NASA-CASE-XNP-01959] c26 N71-23043
- Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292
- Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
[NASA-CASE-IAR-10728-1] c14 N73-12445
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c25 N75-29192
- Field effect transistor and method of construction thereof
[NASA-CASE-HFS-23312-1] c33 N76-26394
- SENSITIVITY**
- Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N74-11256
- SENSORS**
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-IAR-10337-1] c24 N75-30260
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-HSC-14180-1] c52 N76-14757
- SENSORY PERCEPTION**
- Prosthetic limb with tactile sensing device
[NASA-CASE-HFS-16570-1] c05 N73-32013
- SEPARATED FLOW**
- Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
- Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XIA-01290] c02 N70-42016
- Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
- Flow separation detector
[NASA-CASE-ARC-11046-1] c35 N76-28535
- SEPARATORS**
- Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XIA-08645] c15 N69-21465
- Umbilical separator for rockets
[NASA-CASE-XNE-00425] c11 N70-38202
- Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
- Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XIF-00586] c15 N71-15968
- Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
- Development of liquid separating system using capillary device connected to flexible bladder storage chamber
[NASA-CASE-XMS-13052] c14 N71-20427
- Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XMF-04042] c15 N71-23023
- Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XIA-8914] c15 N73-12492
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c34 N75-26282
- Low gravity phase separator
[NASA-CASE-HSC-14773-1] c31 N75-32262
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-IAR-11224-1] c37 N76-18456
- Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-1] c44 N76-19552
- Inorganic-organic battery separator for alkaline batteries
[NASA-CASE-LEW-12649-1] c44 N76-31674
- Gels as battery separators for soluble electrode cells

- [NASA-CASE-LEW-12364-1] c44 N77-22606
- SEQUENCING**
- Synchronous counter design incorporating cascaded binary stages driven by previous stages and inputs through NAND gates [NASA-CASE-XGS-02440] c08 N71-19432
- Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage [NASA-CASE-XGS-04224] c10 N71-26418
- Digital function generator for generating any arbitrary single valued function [NASA-CASE-NFO-11104] c08 N72-22165
- MCD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits [NASA-CASE-NFO-10636] c08 N72-25210
- Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences [NASA-CASE-NFO-11406] c08 N73-12175
- Mechanical sequencer** [NASA-CASE-MSC-19536-1] c37 N77-22482
- SEQUENTIAL ANALYSIS**
- Binary coded sequential acquisition ranging system for distance measurements [NASA-CASE-NFO-11194] c08 N72-25209
- Event sequence detector with several input and shift register responsive to clock pulses [NASA-CASE-NFO-11703-1] c10 N73-32144
- SEQUENTIAL COMPUTERS**
- Digital data reformatter/deserializer [NASA-CASE-NFO-13676-1] c60 N77-24781
- SEQUENTIAL CONTROL**
- Linear three-tap feedback shift register [NASA-CASE-NFO-10351] c08 N71-12503
- Binary sequence detector with few memory elements and minimized logic circuit complexity [NASA-CASE-XNF-05415] c08 N71-12505
- Sequencing device utilizing planetary gear set [NASA-CASE-MSC-19514-1] c37 N77-19459
- SERUMS**
- Reduction of blood serum cholesterol [NASA-CASE-NFO-12119-1] c52 N75-15270
- SERVICE LIFE**
- Service life of electromechanical device for generating sine/cosine functions [NASA-CASE-LAR-10503-1] c09 N72-21248
- SERVOAMPLIFIERS**
- Pneumatic servocamplifier for controlling flow regulator [NASA-CASE-MSC-12121-1] c15 N71-27147
- SERVOCONTROL**
- Electronic and mechanical scanning control system for monopulse tracking antenna [NASA-CASE-XGS-05582] c17 N69-27460
- Proportional controller for regulating aircraft or spacecraft motion about three axes [NASA-CASE-XAC-03392] c03 N70-41954
- Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders [NASA-CASE-XMS-04300] c09 N71-19479
- Servocontrol system for measuring local stresses at geometric discontinuity in stressed material [NASA-CASE-XLA-08530] c32 N71-25360
- System to control speed of hydraulically movable members by limiting energy applied to actuators with hydraulic servo loop [NASA-CASE-ARC-10131-1] c15 N71-27754
- Digital servo controller --- for rotating antenna shaft [NASA-CASE-MSC-10769-1] c33 N74-29556
- Digital servo control of random sound test excitation --- in reverberant acoustic chamber [NASA-CASE-NFO-11623-1] c71 N74-31148
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly [NASA-CASE-MFS-22073-1] c33 N75-13139
- Servo-controlled intravital microscope system [NASA-CASE-NFO-13214-1] c35 N75-25123
- SERVO MECHANISMS**
- Servo system for retroreflector of Michelson interferometer [NASA-CASE-NFO-10300] c14 N71-17662
- Mechanical function generators with potentiometer as sensing element [NASA-CASE-XAC-00001] c15 N71-28952
- Closed loop servosystem for variable speed tape recorders on card spacecraft [NASA-CASE-NFO-10700] c07 N71-33613
- Characteristics of lightweight actuator for imparting linear motion using elongated output shaft [NASA-CASE-NFO-11222] c15 N72-25456
- Development and characteristics of rotary actuator for use on spacecraft to deploy and support pivotal structures such as solar panels [NASA-CASE-NFO-10680] c31 N73-14855
- Method and apparatus for providing a servodrive signal in a high speed stepping interferometer [NASA-CASE-NFO-13569-1] c35 N75-21600
- Simulator for practicing the mating of an observer-controlled object with a target [NASA-CASE-MFS-23052-2] c14 N77-18179
- Hydraulic drain means for servo-systems [NASA-CASE-NFO-10316-1] c37 N77-22479
- Method and apparatus for providing a servo drive signal in a high-speed stepping interferometer [NASA-CASE-NFO-13569-2] c33 N77-28395
- SERVO MOTORS**
- Automatic closed circuit television arc guidance control for welding joints [NASA-CASE-MFS-13046] c07 N71-19433
- Electric motor control system with pulse width modulation for providing automatic null seeking servo [NASA-CASE-XNF-05195] c10 N71-24861
- Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses [NASA-CASE-NFO-10758] c14 N73-14427
- Development and characteristics of rotary actuator for use on spacecraft to deploy and support pivotal structures such as solar panels [NASA-CASE-NFO-10680] c31 N73-14855
- Servo valve [NASA-CASE-LAR-11643-1] c37 N75-13268
- SHAFTS (MACHINE ELEMENTS)**
- Fatigue resistant shear pin with hollow shaft and two plugs [NASA-CASE-XLA-09122] c15 N69-27505
- Elastic universal joint for rocket motor mounting [NASA-CASE-XNF-00416] c15 N70-36947
- Air brake device for absorbing and measuring power from rotating shafts [NASA-CASE-XIE-00720] c14 N70-40201
- Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members [NASA-CASE-XFB-04104] c03 N70-42073
- Ratchet mechanism for high speed operation at reduced backlash [NASA-CASE-MFS-12805] c15 N71-17805
- Universal joints for connecting two displaced shafts or members [NASA-CASE-NFO-10646] c15 N71-28467
- Development of mating flat surfaces to inhibit leakage of fluid around shafts [NASA-CASE-XLE-10326-2] c15 N72-29488
- Fatigue life of hybrid antifriction bearings at ultrahigh speeds [NASA-CASE-LEW-11152-1] c15 N73-32359
- Spiral groove seal --- for hydraulic rotating shaft [NASA-CASE-LEW-10326-3] c37 N74-10474
- Hole cutter --- drill bits and rotating shaft [NASA-CASE-MFS-22649-1] c37 N75-25186
- Counter pumping debris excluder and separator [NASA-CASE-LEW-11855-1] c37 N76-20487
- Circumferential shaft seal [NASA-CASE-LEW-12119-1] c37 N76-20488
- Adjustable securing base [NASA-CASE-MSC-19666-1] c37 N76-31529
- Non-floating universal joint [NASA-CASE-MSC-19546-1] c37 N77-25536
- Shaft seal assembly for high speed and high pressure applications [NASA-CASE-LEW-11873-1] c37 N77-27404
- Twin-capacitive shaft angle encoder with analog output signal [NASA-CASE-ARC-10897-1] c33 N77-31404
- SHALES**
- In-situ laser rotating of oil shale [NASA-CASE-LEW-12217-1] c36 N77-18429

SHAPED CHARGES

Coupling device for linear shaped charge for space vehicle abort system
[NASA-CASE-XIA-00189] c33 N70-36846

Development of remotely controlled shaped charge for lateral displacement of rocket stages after separation
[NASA-CASE-XIA-04804] c31 N71-23008

SHAPERS

Mandrel for shaping solid propellant rocket fuel into engine casing
[NASA-CASE-XIA-00304] c27 N70-34783

Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536

Dielectric apparatus for heating, fusing, and hardening of organic matrix to form plastic material into shaped product
[NASA-CASE-IAR-10121-1] c15 N71-26721

SHARKS

Conditioning tanned sharkskin for use as abrasive resistant clothing
[NASA-CASE-XMS-09691-1] c18 N71-15545

SHEAR CREEP

Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XIE-01481] c14 N71-10781

SHEAR FLOW

Shear modulated fluid amplifier of high pressure hydraulic vortex amplifier type
[NASA-CASE-MFS-10412] c12 N71-17578

SHEAR PROPERTIES

Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-05462] c14 N71-17584

SHEAR STRESS

Fatigue resistant shear pin with hollow shaft and two flugs
[NASA-CASE-XIA-09122] c15 N69-27505

Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-RFC-10292] c14 N72-25410

Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c37 N74-23064

SHELLS (STRUCTURAL FORMS)

Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XIE-00144] c28 N70-34860

SHIELDING

Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01655] c15 N71-28937

Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
[NASA-CASE-MFS-13687-2] c09 N72-22198

System for the measurement of ultra-low stray light levels --- light shields and baffles
[NASA-CASE-MFS-23513-1] c74 N77-14842

SHIFT REGISTERS

Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades
[NASA-CASE-XNP-00432] c08 N70-35423

Linear three-tap feedback shift register
[NASA-CASE-NFO-10351] c08 N71-12503

Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897

Commutator for steering precisely controlled bidirectional currents through numerous loads by use of magnetic core shift registers
[NASA-CASE-NFO-10743] c08 N72-21199

Multistage feedback shift register with states decomposable into cycles of equal length
[NASA-CASE-NFO-11082] c08 N72-22167

MCD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits
[NASA-CASE-NFO-10636] c08 N72-25210

Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NFO-11406] c08 N73-12175

Family of m-ary linear feedback shift register with binary logic
[NASA-CASE-NFO-11868] c10 N73-20254

Nonrecursive counting digital filter containing shift register
[NASA-CASE-NFO-11821-1] c08 N73-26175

Event sequence detector with several input and shift register responsive to clock pulses
[NASA-CASE-NFO-11703-1] c10 N73-32144

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NFO-13451-1] c33 N76-14373

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ABC-10899-1] c60 N77-19760

Digital data reformatter/deserializer
[NASA-CASE-NFO-13676-1] c60 N77-24781

SHOCK ABSORBERS

Pivotal shock absorbing assembly for use as load distributing portion in landing gear systems of space vehicles
[NASA-CASE-XMF-03856] c31 N70-34159

Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XIA-00754] c15 N70-34850

Shock absorbing couch for body support under high acceleration or deceleration forces
[NASA-CASE-XMS-01240] c05 N70-35152

Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679

Landing pad assembly for aerospace vehicles
[NASA-CASE-XMF-02853] c31 N70-36654

Spacecraft shock absorbing system for soft landings
[NASA-CASE-XMF-02108] c31 N70-36845

Shock absorber for landing gear of lunar or planetary landing modules
[NASA-CASE-XMF-01045] c15 N70-40354

Shock absorbing articulated multiple couch assembly
[NASA-CASE-MSC-11253] c05 N71-12343

Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XMS-03722] c15 N71-21530

Impact energy absorber with decreasing absorption rate
[NASA-CASE-XIA-01530] c14 N71-23092

Energy absorbing crew couch strut for Apollo command module
[NASA-CASE-MSC-12279] c15 N72-17450

Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NFO-10671] c15 N72-20443

Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c19 N76-22284

An improved vehicular impact absorption system
[NASA-CASE-NFO-14014-1] c37 N77-31501

SHOCK LOADS

Damper system for alleviating air flow shock loads on wind tunnel models
[NASA-CASE-XIA-09480] c11 N71-33612

SHOCK MEASURING INSTRUMENTS

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c35 N76-19405

SHOCK RESISTANCE

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Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584

Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436

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[NASA-CASE-XAC-00731] c11 N71-15960

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[NASA-CASE-NFO-12109] c11 N72-22245

Annular arc accelerator shock tube
[NASA-CASE-NFO-13528-1] c09 N77-10071

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Absorptive, nonreflecting barrier mounted between closely spaced jet engines on supersonic aircraft, for preventing shock wave

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[NASA-CASE-XAC-02970] c14 N69-39896

SHOCK WAVE PFCPILES
Method and apparatus for measuring shock layer radiation distribution about high velocity objects
[NASA-CASE-XAC-02970] c14 N69-39896

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[NASA-CASE-XLE-04946] c17 N71-24911
Electrical device for developing converging spherical shock waves
[NASA-CASE-NFS-20890] c14 N72-22439
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[NASA-CASE-NFS-20861-1] c18 N73-32437
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[NASA-CASE-XLA-08491] c05 N69-21380

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[NASA-CASE-XGS-04808] c03 N69-25146
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[NASA-CASE-XLR-11919-1] c07 N76-22202

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[NASA-CASE-ARC-10516-1] c70 N74-21300

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[NASA-CASE-XNP-02723] c07 N70-41680

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[NASA-CASE-XNP-01057] c07 N71-15907

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[NASA-CASE-MSC-12395] c09 N72-25257
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[NASA-CASE-MSC-14130-1] c33 N74-32711
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[NASA-CASE-XLA-03076] c07 N71-11266

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[NASA-CASE-XMS-06949] c09 N69-21467
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[NASA-CASE-XNP-05612] c09 N69-21468
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[NASA-CASE-XNP-10830] c07 N71-11281
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Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255
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[NASA-CASE-NFO-10388] c07 N71-24622
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[NASA-CASE-XLE-03061-1] c10 N71-24798
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[NASA-CASE-GSC-11367] c10 N71-26374

- Device for monitoring voltage by generating signal when voltages drop below predetermined value
[NASA-CASE-KSC-10020] c10 N71-27338
- System for control of variable signal generator
[NASA-CASE-NFO-11064] c07 N72-11150
- Digital function generator for generating any arbitrary single valued function
[NASA-CASE-NFO-11104] c08 N72-22165
- Development of Hall effect transducer for converting mechanical shaft rotations into proportional electrical signals
[NASA-CASE-LPR-10620-1] c09 N72-25255
- Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
- Audio frequency analysis circuit for determining, displaying, and recording frequency of sweeping audio frequency signal
[NASA-CASE-NFO-11107] c14 N72-27408
- Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NFO-11623-1] c71 N74-31148
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[NASA-CASE-KSC-10750-1] c35 N75-12270
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[NASA-CASE-NFO-13125-1] c33 N75-19519
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[NASA-CASE-MFS-22671-1] c35 N75-21582
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
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[NASA-CASE-XGS-01110] c07 N69-24334
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[NASA-CASE-XIA-03076] c07 N71-11266
- Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan rate of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
- Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
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[NASA-CASE-XNP-00746] c07 N71-21476
- System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174
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[NASA-CASE-XAC-10607] c10 N71-23669
- Sampling circuit for signal processing in multiplex transmission by Fourier analysis
[NASA-CASE-NFO-10388] c07 N71-24622
- Video signal processing system for sampling video brightness levels
[NASA-CASE-NFO-10140] c07 N71-24742
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[NASA-CASE-GSC-10299-1] c09 N71-24804
- Apparatus for filtering input signals
[NASA-CASE-NFO-10198] c09 N71-24806
- Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
- Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
- Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NFO-10302] c10 N71-26142
- Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
- Development of apparatus for generating output signal commensurate with information contained in input signal
[NASA-CASE-ERC-10041] c08 N71-29138
- Development of electric circuit for production of different pulse width signals
[NASA-CASE-XLA-07788] c09 N71-29139
- Phase shifting circuit for selecting phase of input signal
[NASA-CASE-ARC-10269-1] c10 N72-16172
- Processing system for semiperiodic electrical signals to produce real time contoured display
[NASA-CASE-MSC-13407-1] c10 N72-20225
- Design and characteristics of recording system for selective reprocessing and filtering of data to obtain optimum signal to noise ratios
[NASA-CASE-ERC-10112] c07 N72-21119
- Technique for deriving logarithm of input signal using exponentially varying electric signal inversely
[NASA-CASE-ERC-10267] c09 N72-23173
- Development and characteristics of telemetry system using computer-accessed circuits and remotely controlled from ground station
[NASA-CASE-NFO-11358] c07 N72-25172
- Characteristics of digital data processor using pulse from clock source to derive binary singles to show state of various indicators in processor
[NASA-CASE-GSC-10975-1] c08 N73-13187
- Characteristics of two channel telemetry system with two data rate channels for high and low data rate communication
[NASA-CASE-NFO-11572] c07 N73-16121
- Measurement system for physical quantity represented by or converted to variable frequency signal
[NASA-CASE-MFS-20658-1] c14 N73-30386
- Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c33 N74-11050
- Low level signal limiter
[NASA-CASE-XLE-04791] c32 N74-22096
- Miniature multichannel biotelemetry system
[NASA-CASE-NFO-13065-1] c52 N74-26625
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c52 N74-26626
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c33 N74-32711
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c60 N75-13539
- Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c33 N75-19518
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
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[NASA-CASE-MFS-21616-1] c33 N75-30429
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- Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c32 N76-21366
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c34 N76-27517
- Surface roughness measuring system
[NASA-CASE-NFO-13862-1] c32 N77-17325
- Bit error rate measurement above and below hit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N77-19290
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c09 N77-27131
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c32 N77-27272
- An interleaving device --- for computer logic circuits used in optical data processing
[NASA-CASE-GSC-12111-2] c60 N77-31800

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[NASA-CASE-GSC-11839-3] c60 N77-32731

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[NASA-CASE-INP-00748] c07 N70-36911

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[NASA-CASE-INP-10843] c07 N71-11267

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[NASA-CASE-IGS-01222] c10 N71-20841

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[NASA-CASE-IGS-03502] c10 N71-20852

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[NASA-CASE-XGS-00740] c07 N71-23098

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[NASA-CASE-NFO-10118] c07 N71-24741

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[NASA-CASE-MSC-12205-1] c07 N71-27056

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[NASA-CASE-ERC-10275] c26 N72-25680

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[NASA-CASE-NFO-11941-1] c10 N73-27171

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[NASA-CASE-NFO-11738-1] c09 N73-30185

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[NASA-CASE-NFO-10166-2] c35 N76-16391

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[NASA-CASE-INP-10843] c07 N71-11267

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[NASA-CASE-IGS-05441] c10 N71-22962

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[NASA-CASE-ERC-10041] c08 N71-29138

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[NASA-CASE-NFO-13140-1] c32 N75-24982

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Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616

Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-INP-00748] c07 N70-36911

Detector assembly for discriminating first signal with respect to presence or absence of second signal at time of occurrence of first signal
[NASA-CASE-INP-00701] c09 N70-40272

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[NASA-CASE-INP-05254] c07 N71-20791

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[NASA-CASE-INP-04367] c09 N71-23545

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[NASA-CASE-ERC-10112] c07 N72-21119

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[NASA-CASE-LAR-10253-1] c09 N72-25258

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[NASA-CASE-MSC-12259-2] c07 N72-33146

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[NASA-CASE-GSC-11239-1] c10 N73-25241

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[NASA-CASE-NFO-11820-1] c32 N74-19788

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Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-IGS-05918] c07 N69-39974

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[NASA-CASE-IAC-00086] c09 N70-33182

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[NASA-CASE-INP-01160] c07 N71-11298

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[NASA-CASE-XGS-01590] c07 N71-12392

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[NASA-CASE-INP-05254] c07 N71-20791

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[NASA-CASE-INP-01306] c07 N71-20814

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[NASA-CASE-INP-01892] c10 N71-22986

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[NASA-CASE-IGS-03632] c09 N71-23311

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[NASA-CASE-RSC-10108] c14 N73-25461

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[NASA-CASE-RSC-10654-1] c07 N73-30115

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[NASA-CASE-NFO-11962-1] c33 N74-10194

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810

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[NASA-CASE-MSC-14558-1] c32 N75-21486

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[NASA-CASE-GSC-11743-1] c32 N75-24981

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[NASA-CASE-LAR-11264-1] c33 N75-27261

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[NASA-CASE-NFO-13683-1] c35 N77-14411

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[NASA-CASE-GSC-12142-1] c32 N77-20299

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[NASA-CASE-GSC-12075-1] c32 N77-31350

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[NASA-CASE-INP-06409] c06 N71-23230

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[NASA-CASE-INP-08674] c06 N71-28807

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[NASA-CASE-LFW-12364-1] c44 N77-22606

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[NASA-CASE-IGS-04119] c18 N69-39979

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[NASA-CASE-ILR-10910] c18 N71-29040

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- Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications [NASA-CASE-XLF-08569] c03 N71-23449
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- Device for producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride [NASA-CASE-XLA-02057] c26 N70-40015
- Process for fabricating SiC semiconductor devices [NASA-CASE-LEW-12094-1] c76 N76-25049
- Production of crystals from molten solutions [NASA-CASE-NFO-13969-2] c76 N77-30984
- SILICON COMPOUNDS**
- Doping silicon material with gadolinium to increase radiation resistance of solar cells [NASA-CASE-XLF-02792] c26 N71-10607
- Process for preparing disilanol with in-chain perfluorocalkyl groups [NASA-CASE-MFS-20979-2] c06 N73-32030
- SILICON CONTROLLED RECTIFIERS**
- Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction [NASA-CASE-XGS-04808] c03 N69-25146
- Silicon controlled rectifier inverter with compensation of transients to avoid false gating [NASA-CASE-XLA-08507] c09 N69-39984
- Reversible ring counter using cascaded single silicon controlled rectifier stages [NASA-CASE-XGS-01473] c09 N71-10673
- Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages [NASA-CASE-XLA-07497] c09 N71-12514
- SILICON DIOXIDE**
- Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components [NASA-CASE-XNP-00920] c15 N71-15906
- Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield [NASA-CASE-XMS-04312] c07 N71-22984
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient [NASA-CASE-ERC-10073-1] c24 N74-19769
- Silica reusable surface insulation [NASA-CASE-ARC-10721-1] c27 N76-22376
- Two-component ceramic coating for silica insulation [NASA-CASE-MSC-14270-1] c27 N76-22377
- SILICON FILMS**
- Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection [NASA-CASE-ERC-10120] c26 N69-33482
- SILICON JUNCTIONS**
- Improving radiation resistance of silicon semiconductor junctions by doping with lithium [NASA-CASE-XGS-07801] c09 N71-12513
- SILICON NITRIDES**
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient [NASA-CASE-ERC-10073-1] c24 N74-19769
- Silicon nitride coated, plastic covered solar cell [NASA-CASE-LEW-11496-1] c44 N77-14580
- SILICON OXIDES**
- Three-component ceramic coating for silica insulation [NASA-CASE-MSC-14270-2] c27 N76-23426
- SILICON POLYMERS**
- Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers [NASA-CASE-ARC-10915-2] c27 N77-20256
- SILICON RADIATION DETECTORS**
- Lithium drifted silicon radiation detector with gold rectifying contacts [NASA-CASE-XLF-10529] c14 N69-23191
- Silicon radiation detecting probe design for in vivo biomedical use [NASA-CASE-XMS-01177] c05 N71-19440
- SILICON TRANSISTORS**
- Vapor deposition method for forming metallized tungsten contacts on silicon substrates [NASA-CASE-GSC-10695-1] c09 N72-25259
- Development of method and apparatus for detecting surface ions on silicon diodes and transistors [NASA-CASE-ERC-10325] c15 N72-25457
- SILICONES RESINS**
- Vacuum pressure molding technique [NASA-CASE-LAB-10073-1] c37 N76-24575
- SILICONIZING**
- Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces [NASA-CASE-XLA-00284] c15 N71-16075
- SILOXANES**
- Synthesis of siloxane containing epoxy polymers with low dielectric properties [NASA-CASE-MFS-13994-1] c06 N71-11240
- Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation [NASA-CASE-XMP-02584] c06 N71-20905
- Synthesis of siloxane containing epoxide and diamine polymers [NASA-CASE-MFS-13994-2] c06 N72-25148
- Silphenylenesiloxane polymer with in-chain perfluorocalkyl groups [NASA-CASE-MFS-20979] c06 N72-25151
- Fluid polydimethylsiloxane resin with low outgassing properties in cured state [NASA-CASE-GSC-11358-1] c06 N73-26100
- SILVER**
- Dry electrode manufacture, using silver powder with cement [NASA-CASE-ERC-10029-2] c05 N72-25121
- SILVER ALLOYS**
- Brazing alloy composition [NASA-CASE-XMP-06053] c26 N75-27126
- SILVER CHLORIDES**
- Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs [NASA-CASE-XMS-02872] c05 N69-21925
- Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals [NASA-CASE-XGS-00963] c15 N69-39735
- SILVER COMPOUNDS**
- Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control [NASA-CASE-MSC-10960-1] c03 N71-24718
- SILVER ZINC BATTERIES**
- Elimination of two step voltage discharge property of silver zinc batteries by using divalent silver oxide capacity of cell to charge anodes to monovalent silver state [NASA-CASE-XGS-01674] c03 N71-29129
- SIMULATORS**
- Development of apparatus for simulating zero gravity conditions [NASA-CASE-MFS-12750] c27 N71-16223
- Phonocardiogram simulator producing electrical voltage waves to control amplitude and duration between simulated sounds [NASA-CASE-XKS-10804] c05 N71-24606
- Sign wave generation simulator for variable amplitude, frequency, damping, and phase

- pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365
- SINE SERIES**
Service life of electromechanical device for generating sine/cosine functions
[NASA-CASE-LAR-10503-1] c09 N72-21248
Function generators for producing complex vibration mode patterns used to identify vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253
- SINE WAVES**
Sign wave generation simulator for variable amplitude, frequency, damping, and phase pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365
Wideband generator for producing sine wave quadrature and second harmonic of input signal
[NASA-CASE-NPO-11133] c10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c33 N77-26387
- SINGLE CRYSTALS**
Producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-00158] c26 N70-36805
Single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c09 N72-22199
Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c25 N75-26043
- SINTERING**
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
- SIZE (DIMENSIONS)**
Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
- SIZE DETERMINATION**
Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282
- SIZE SEPARATION**
Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XMP-05114-2] c15 N71-26148
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
- SIZING (SHAPING)**
Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-XMP-05114] c15 N71-17650
- SIZING SCREENS**
Method for making screen with unlimited fineness of mesh and screen thickness
[NASA-CASE-XLE-00953] c15 N71-15966
Screen particle separator for soil samples
[NASA-CASE-XNP-05770-2] c15 N72-22483
- SKEWNESS**
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353
- SKID LANDINGS**
Nose gear steering system for vehicles with main skids to provide directional stability after loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
- SKIN (ANATOMY)**
Conditioning tanned sharkskin for use as abrasive resistant cladding
[NASA-CASE-XMS-09691-1] c18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
- SKIN (STRUCTURAL MEMBER)**
Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
- SKIN TEMPERATURE (BIOLOGY)**
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c52 N77-10780
- SKIN TEMPERATURE (NON-BIOLOGICAL)**
Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XFR-03802] c33 N71-23085
- SKIRTS**
Inflatable rocket engine nozzle skirt with transpiration cooling
[NASA-CASE-MFS-20619] c28 N72-11708
- SKY**
Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408
- SLEEP**
Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-HSC-13282-1] c05 N71-24729
- SLEEVES**
Nonreusable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMP-10040] c15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c37 N75-33395
- SLENDER BODIES**
Support techniques for restraint of slender bodies such as launch vehicles
[NASA-CASE-XLA-02704] c11 N69-21540
- SLIDING CONTACT**
Electrical connector pin with wiping action to assure reliable contact
[NASA-CASE-XNP-04238] c09 N69-39734
Development of slip ring assembly with inner and outer peripheral surfaces used as electrical contacts for brushes
[NASA-CASE-XNP-01049] c15 N71-23049
- SLIDING FRICTION**
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c24 N76-22309
- SLIP CASTING**
Freeze casting of metal ceramic and refractory compound powders into plastic slips
[NASA-CASE-XLE-00106] c15 N71-16076
- SLITS**
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c31 N74-21059
- SLOPES**
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
- SLOT ANTENNAS**
Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c32 N76-15330
- SLOTS**
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft

- [NASA-CASE-LAR-10249-1] c02 N71-26110
Slotted fine-adjustment support for optical devices
- [NASA-CASE-MFS-20249] c15 N72-11386
SLURRY PROPELLANTS
Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
- [NASA-CASE-XLF-00010] c15 N70-33382
SMOKE
Development of method for protecting large and oddly shaped areas from radiant and convective heat
- [NASA-CASE-XNP-01310] c33 N71-28552
Smokestack mounted airfoil
- [NASA-CASE-LAR-11669-1] c34 N76-13419
Stack plume visualization system
- [NASA-CASE-LAR-11675-1] c45 N76-17656
Smoke generator
- [NASA-CASE-ARC-10905-1] c37 N77-13418
SODIUM CHLORIDES
Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
- [NASA-CASE-GSC-11214-1] c06 N73-13128
A reverse osmosis membrane of high urea rejection properties
- [NASA-CASE-ARC-1C980-1] c27 N77-18265
SOFT LANDING
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
- [NASA-CASE-XLE-00810] c15 N70-34861
Spacecraft shock absorbing system for soft landings
- [NASA-CASE-XNP-02108] c31 N70-36845
Payload soft landing system using stowable gas bag
- [NASA-CASE-XLE-09881] c31 N71-16085
SOFT LANDING SPACECRAFT
Pivotal shock absorbing assembly for use as load distributing portion in landing gear systems of space vehicles
- [NASA-CASE-XNP-03856] c31 N70-34159
SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
- [NASA-CASE-NPO-11103-1] c35 N77-27367
SOIL SCIENCE
Auger-type soil penetrometer for burrowing into soil formations
- [NASA-CASE-XNP-05530] c14 N73-32321
Remote sensing of vegetation and soil using microwave ellipsometry
- [NASA-CASE-GSC-11976-1] c43 N76-23671
SOILS
Screen particle separator for soil samples
- [NASA-CASE-XNP-09770-2] c15 N72-22483
Soil burrowing mole apparatus
- [NASA-CASE-XNP-07169] c15 N73-32362
SOLAR ACTIVITY
Radiometric measuring system for solar activity and atmospheric attenuation and emission
- [NASA-CASE-FRC-10276] c14 N73-26432
SOLAR ARRAYS
Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
- [NASA-CASE-NPO-10883] c31 N72-22874
Electrical interconnection of unilluminated solar cells in solar battery array
- [NASA-CASE-GSC-10344-1] c03 N72-27053
Development of solar energy powered heliostrop assembly to orient solar array toward sun
- [NASA-CASE-GSC-10945-1] c21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
- [NASA-CASE-LFW-11069-1] c44 N74-14784
A non-tracking solar energy collector system
- [NASA-CASE-NPO-13813-1] c44 N77-19579
A solar array strip and a method for forming the same
- [NASA-CASE-NPO-13652-1] c44 N77-28585
Solar cell shingle
- [NASA-CASE-LFW-12587-1] c44 N77-31601
SOLAR CELLS
Fabricating solar cells with dielectric layers to improve glass fusion
- [NASA-CASE-XGS-04531] c03 N69-24267
Solar radiation direction detector and device for compensating degradation of photocells
- [NASA-CASE-XLA-00183] c14 N70-40239
Attitude control system for spacecraft based on conversion of incident solar radiation on movable control surfaces into mechanical torques
- [NASA-CASE-XNP-02982] c31 N70-41855
Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
- [NASA-CASE-XMS-01554] c10 N71-10578
Doping silicon material with gadolinium to increase radiation resistance of solar cells
- [NASA-CASE-XLE-02792] c26 N71-10607
Modifying existing solar cells for temperature control
- [NASA-CASE-NFO-10109] c03 N71-11049
Solar battery with interconnecting means for plural cells
- [NASA-CASE-XNP-06506] c03 N71-11050
Fabrication methods for matrices of solar cell submodules
- [NASA-CASE-XNP-05821] c03 N71-11056
Metal strip mounting arrangement for solar cell arrays on spacecraft
- [NASA-CASE-XGS-01475] c03 N71-11058
Conductor for connecting parallel cells into submodules in series to form solar cell matrix
- [NASA-CASE-NPO-10821] c03 N71-19545
Space erectable rollup solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
- [NASA-CASE-NFO-10188] c03 N71-20273
Electrode connection for n-on-p silicon solar cell
- [NASA-CASE-XLE-04787] c03 N71-20492
Fabrication of solar cell banks for attaching solar cells to base members or substrates
- [NASA-CASE-XNP-00826] c03 N71-20895
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
- [NASA-CASE-XNP-01960] c09 N71-23027
Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
- [NASA-CASE-XLE-10715] c26 N71-23292
Maintaining current flow through solar cells with open connection using shunting diode
- [NASA-CASE-XLE-04535] c03 N71-23354
Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
- [NASA-CASE-XLE-08569] c03 N71-23449
Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
- [NASA-CASE-XLE-02798] c26 N71-23654
Method of attaching cover glass to silicon solar cell without using adhesive
- [NASA-CASE-XLE-08569-2] c03 N71-24681
Method and apparatus for fabricating solar cell panels
- [NASA-CASE-XNP-03413] c03 N71-26726
Development and characteristics of solar cells with phosphors in cover glass to improve response to solar ultraviolet radiation
- [NASA-CASE-ARC-10050] c03 N71-33409
Electrically coupled individually encapsulated solar cell matrix
- [NASA-CASE-NPO-11190] c03 N71-34044
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
- [NASA-CASE-XGS-04047-2] c03 N72-11062
Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
- [NASA-CASE-GSC-10669-1] c03 N72-20031
Test method and equipment for identifying faulty cells or connections in solar cell assemblies
- [NASA-CASE-NFO-10401] c03 N72-20033
Electrically connected matrix of discrete solar cell blanks
- [NASA-CASE-NPO-10591] c03 N72-22041
Solar cell panel with light transmitting cover plate
- [NASA-CASE-NFO-10747] c03 N72-22042

- Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
- Apparatus for applying thin glass slides to solar cells
[NASA-CASE-NFO-10575] c03 N72-25019
- Electrical interconnection of unilluminated solar cells in solar battery array
[NASA-CASE-GSC-10344-1] c03 N72-27053
- Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NFO-11771] c03 N73-20040
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c44 N74-14784
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NFO-13482-1] c44 N74-30448
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
- Solar cell surface treatment
[NASA-CASE-LEW-11330-1] c44 N76-14612
- Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
[NASA-CASE-GSC-12022-1] c44 N76-26695
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 N76-28635
- Solar cell grid patterns
[NASA-CASE-NFO-13087-2] c44 N76-31666
- Solar cell surface treatment
[NASA-CASE-LEW-11330-2] c44 N76-33624
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c44 N77-10635
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580
- Encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c44 N77-15490
- Improved backwall cell
[NASA-CASE-LEW-12236-1] c44 N77-17565
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c44 N77-19571
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c44 N77-24589
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c44 N77-30613
- SOLAR COLLECTORS**
- Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-IGS-01395] c03 N69-21539
- Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-ILE-01716] c09 N70-40234
- Space erectable rollup solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
[NASA-CASE-NFO-10188] c03 N71-20273
- Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors
[NASA-CASE-LAR-10373-1] c18 N71-26155
- Development and characteristics of solar cells with phosphors in cover glass to improve response to solar ultraviolet radiation
[NASA-CASE-ARC-10050] c03 N71-33409
- Selective coating for solar panels --- energy policy
[NASA-CASE-LEW-12159-1] c44 N76-15603
- Portable, linear-focused solar thermal energy collecting system
[NASA-CASE-NFO-13734-1] c44 N76-26690
- Solar cell collector and method for producing same --- indium alloy coatings
[NASA-CASE-LEW-12552-1] c44 N77-17564
- A non-tracking solar energy collector system
[NASA-CASE-NFO-13813-1] c44 N77-19579
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
- Solar energy collection system
[NASA-CASE-NFO-13579-2] c44 N77-20565
- Low cost solar energy collection system
[NASA-CASE-NFO-13579-3] c44 N77-20566
- Sun tracking solar energy collector
[NASA-CASE-NFO-13921-1] c44 N77-24590
- Method for fabricating solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c44 N77-24593
- A non-tracking solar energy collector system
[NASA-CASE-NFO-13817-1] c44 N77-28583
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c44 N77-31601
- Aluminum or copper substrate panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610
- Stainless steel panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-2] c44 N77-31611
- Solar energy collection system
[NASA-CASE-NFO-13810-1] c44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NFO-13736-1] c44 N77-32583
- SOLAR ENERGY**
- Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NFO-11771] c03 N73-20040
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c44 N75-32581
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NFO-13497-1] c44 N76-14602
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c44 N77-22615
- Aluminum or copper substrate panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-1] c44 N77-31610
- Solar photolysis of water
[NASA-CASE-NFO-13675-1] c44 N77-32580
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NFO-13736-1] c44 N77-32583
- SOLAR ENERGY ABSORBERS**
- Low cost solar energy collection system
[NASA-CASE-NFO-13579-1] c44 N75-28519
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c44 N76-14595
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N76-22657
- Solar energy trap
[NASA-CASE-MFS-22744-1] c44 N76-24696
- A non-tracking solar energy collector system
[NASA-CASE-NFO-13813-1] c44 N77-19579
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c44 N77-31601
- Stainless steel panel for selective absorption of solar energy and the method of producing said panel
[NASA-CASE-MFS-23518-2] c44 N77-31611
- SOLAR ENERGY CONVERSION**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c44 N76-23675
- Improved low cost substrates for polycrystalline solar cells --- for solar energy conversion
[NASA-CASE-GSC-12022-2] c44 N76-26695
- Improved backwall cell
[NASA-CASE-LEW-12236-1] c44 N77-17565
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c44 N77-30613
- SOLAR FURNACES**
- Lens assembly for solar furnace or solar simulator
[NASA-CASE-INP-04111] c14 N71-15622
- SOLAR GENERATORS**
- Describing method for vapor deposition of gallium arsenide films to manganese substrates to provide semiconductor devices with low resistance substrates
[NASA-CASE-INP-01328] c26 N71-18064
- SOLAR GRAVITATION**
- Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-INP-00708] c14 N70-35394

SOLAR HEATING

Improved solar heating system
[NASA-CASE-LAR-12009-1] c44 N76-32649

SOLAR OBSERVATORIES

Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568

SOLAR POWDS (HEAT STORAGE)

Solar pond
[NASA-CASE-NFO-13581-2] c44 N77-28584

SOLAR POSITION

Sun angle calculator
[NASA-CASE-MSC-12617-1] c35 N76-29552

SOLAR RADIATION

Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675

Design and characteristics of device for sensing solar radiation and providing spacecraft attitude control to maintain direction with respect to incident radiation
[NASA-CASE-XNP-05535] c14 N71-23040

Utilization of solar radiation by solar still for converting salt and trackish water into potable water
[NASA-CASE-XMS-04533] c15 N71-23086

Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NFO-13327-1] c35 N75-23910

Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c34 N77-18382

SOLAR RADIO EMISSION

System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops
[NASA-CASE-XGS-02610] c14 N71-23174

SOLAR REFLECTORS

Foldable, double concave and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580

Modifying existing solar cells for temperature control
[NASA-CASE-NFO-10109] c03 N71-11049

Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLF-08917] c15 N71-15597

Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610

Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836

Inorganic thermal control and solar reflector coatings
[NASA-CASE-MFS-20011] c18 N72-22566

Low cost solar energy collection system
[NASA-CASE-NFO-13579-1] c44 N75-28519

Solar energy collection system
[NASA-CASE-NFO-13579-2] c44 N77-20565

Low cost solar energy collection system
[NASA-CASE-NFO-13579-3] c44 N77-20566

Lightweight reflector assembly
[NASA-CASE-NFO-13707-1] c74 N77-28933

SOLAR SAILS

Strong thin membrane structure
[NASA-CASE-NFO-14021-1] c27 N77-32313

SOLAR SENSORS

Sensor consisting of photocells mounted on pyramidal base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736

Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395

Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678

Solar sensor with coarse and fine sensing elements for matching preirradiated cells on degradation rates
[NASA-CASE-XLA-01584] c14 N71-23269

Sun direction detection system
[NASA-CASE-NFO-13722-1] c74 N77-22951

Sun tracking solar energy collector
[NASA-CASE-NFO-13921-1] c44 N77-24590

SOLAR SIMULATORS

Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-XNP-11162-1] c33 N74-12913

SOLDERED JOINTS

Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214

SOLDERING

Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
[NASA-CASE-XNP-03459-2] c18 N71-15688

Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078

Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
[NASA-CASE-XLA-08966-1] c17 N71-25903

Device for resistance soldering electrical leads to solder cups of multiple terminal block
[NASA-CASE-GSC-10913] c15 N72-22491

Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497

SOLDERS

Solder coating process for printed copper circuit protection
[NASA-CASE-XMF-01599] c09 N71-20705

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260

SOLENOID VALVES

Solenoid two-step valve for bipropellant flow rate control to rocket engine
[NASA-CASE-XMS-04890-1] c15 N70-22192

Automatic recording McLeod gage with three electrodes and solenoid valve connection
[NASA-CASE-XLE-03280] c14 N71-23093

Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c15 N72-20442

Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c25 N74-33378

Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c09 N75-12968

SOLENOIDS

Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss
[NASA-CASE-XNP-01951] c09 N70-41929

Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example
[NASA-CASE-NFO-10716] c09 N71-24892

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c33 N74-20861

Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c37 N74-26976

SOLID LUBRICANTS

Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400

Solid lubricant applied to porous roller bearings prior to use in ultrahigh vacuum
[NASA-CASE-XLE-09527] c15 N71-17688

Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMF-03988] c15 N71-21403

Development of rolling element bearing for operation in ultrahigh vacuum environment
[NASA-CASE-XLE-09527-2] c15 N71-26189

SOLID PROPELLANT IGNITION

Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375

Method for igniting solid propellant rocket motors by injecting hypergolic fluids

- [NASA-CASE-XLF-01988] c27 N71-15634
SOLID PROPELLANT ROCKET ENGINES
 Spherical solid propellant rocket engine design
 [NASA-CASE-XLA-00105] c28 N70-33331
 Mandrel for shaping solid propellant rocket fuel
 into engine casing
 [NASA-CASE-XLA-00304] c27 N70-34783
 Spherical solid propellant rocket engine having
 abrupt burnout
 [NASA-CASE-XHQ-01897] c28 N70-35381
 Grain configuration for solid propellant rocket
 engines
 [NASA-CASE-XGS-03556] c27 N70-35534
 Solid propellant rocket vehicle thrust control
 method and apparatus
 [NASA-CASE-XNP-00217] c28 N70-38181
 Steerable solid propellant rocket motor adapted
 to effect payload orientation as multistage
 rocket stage or reduce velocity as retrorocket
 [NASA-CASE-XNP-00234] c28 N70-38645
 Method of making solid propellant rocket motor
 having reliable high altitude capabilities,
 long shelf life, and capable of firing with
 nozzle closure with foamed plastic permanent
 mandrel
 [NASA-CASE-XLA-04126] c28 N71-26779
 Electrical failure detector in solid rocket
 propellant motor insulation against thermal
 degradation by fuel grain
 [NASA-CASE-XMF-03968] c14 N71-27186
 Solid propellant rocket engine with venting
 system to control effective nozzle throat area
 [NASA-CASE-XNP-03282] c28 N72-20758
 Thin walled nozzle with insulative nonablative
 coating for solid propellant rocket engines
 [NASA-CASE-NPO-11458] c28 N72-23810
 Characteristics of solid propellant rocket
 engine with controlled rate of thrust buildup
 operating in vacuum environment
 [NASA-CASE-NPO-11559] c28 N73-24784
 Space vehicle
 [NASA-CASE-MFS-22734-1] c18 N75-19329
 Solid propellant rocket motor and method of
 making same
 [NASA-CASE-XLA-1349] c20 N77-17143
SOLID PROPELLANTS
 Variable thrust ion engine using thermal
 decomposition of solid cesium compound to
 produce propulsive vapor
 [NASA-CASE-XMF-00923] c28 N70-36802
 Photographic method for measuring viscoelastic
 strain in solid propellants and other materials
 [NASA-CASE-XNP-01153] c32 N71-17645
 Ethylene oxide sterilization and encapsulating
 process for sterile preservation of
 instruments and solid propellants
 [NASA-CASE-XNP-05763] c14 N71-20461
 Chemical process for production of
 polyisobutylene compounds and application as
 solid rocket propellant binder
 [NASA-CASE-NFO-10893] c27 N73-22710
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 propellant to rocket motor case
 [NASA-CASE-XNP-09744] c27 N71-16392
SOLID ROCKET PROPELLANTS
 Using ethylene oxide in preparation of
 sterilized solid rocket propellants and
 encapsulating materials
 [NASA-CASE-XNP-01749] c27 N70-41897
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 [NASA-CASE-XLE-03494] c27 N71-21819
 Solid propellant stabilizer containing
 nitroguanidine
 [NASA-CASE-NFO-12000] c27 N72-25699
 Solid propellant containing hydrazinium
 nitroformate oxidizer and polymeric
 hydrocarbon binder
 [NASA-CASE-NPO-12015] c27 N73-16764
 Preparing oxidizer coated metal fuel particles
 [NASA-CASE-NFO-11975-1] c28 N74-33209
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 [NASA-CASE-LAR-11995-1] c28 N77-10213
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 Solid state chemical source for ammonia beam
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 current capacity of low rated relay contacts
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 Temperature compensated solid state differential
 amplifier with application in
 bioinstrumentation circuits
 [NASA-CASE-XAC-00435] c09 N70-35440
 Solid state device for mapping flux and power in
 nuclear reactor cores
 [NASA-CASE-XLE-00301] c14 N70-36808
 Solid state operational integrator
 [NASA-CASE-NPO-10230] c09 N71-12520
 Microwave power receiving antenna solving heat
 dissipation problems by construction of
 elements as heat pipe devices
 [NASA-CASE-MFS-20333] c09 N71-13486
 Computer circuit performing both counting and
 shifting logic operations also capable of
 miniaturization and integration in basic
 circuits
 [NASA-CASE-XNP-01753] c08 N71-22897
 Solid state television camera system consisting
 of monolithic semiconductor mosaic sensor and
 molecular digital readout systems
 [NASA-CASE-XNP-06092] c07 N71-24612
 Solid state circuit for switching alternating
 current input signal as function of direct
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 [NASA-CASE-XNP-06505] c10 N71-24799
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 [NASA-CASE-ERC-10088] c26 N71-25490
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 [NASA-CASE-ERC-10032] c10 N71-25900
 Solid state broadband stable power amplifier
 [NASA-CASE-XNP-10854] c10 N71-26331
 Solid state remote circuit selector switching
 circuit
 [NASA-CASE-LEW-10387] c09 N72-22201
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 [NASA-CASE-ARC-10136-1] c09 N72-22202
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 of electrical currents to load for Seebeck
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 [NASA-CASE-NFO-11388] c03 N72-23048
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 [NASA-CASE-NFO-10817-1] c08 N73-30135
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[NASA-CASE-IJC-08494] c30 N71-15990
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[NASA-CASE-XMF-00684] c21 N71-21688
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[NASA-CASE-GSC-11188-2] c21 N73-19630

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[NASA-CASE-XGS-00466] c21 N70-34297

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[NASA-CASE-IAC-02058] c02 N71-16087
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[NASA-CASE-HSC-12391] c30 N73-12884
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[NASA-CASE-HSC-12433] c31 N73-14854
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[NASA-CASE-XMF-00459] c11 N70-38675
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[NASA-CASE-XIA-03691] c31 N71-15674
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[NASA-CASE-HFS-20096] c14 N71-30026

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[NASA-CASE-XIA-00258] c31 N70-38676
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[NASA-CASE-LAR-10629-1] c35 N75-33367
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Astronaut restraint suit for high acceleration protection
[NASA-CASE-IAC-00405] c05 N70-41819
Space suit with pressure-volume compensator system
[NASA-CASE-XIA-05332] c05 N71-11194
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[NASA-CASE-LAR-10007-1] c05 N71-11195
One piece human garment for use as contamination proof garment
[NASA-CASE-HSC-12206-1] c05 N71-17599
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XMF-07488] c11 N71-18773
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
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[NASA-CASE-IAC-07043] c05 N71-23161
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[NASA-CASE-XMF-03290] c15 N71-23256
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-HSC-12109] c18 N71-26285
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[NASA-CASE-XMS-09652-1] c05 N71-26333
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[NASA-CASE-HSC-13917-1] c05 N72-15098
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[NASA-CASE-HFS-20332] c05 N72-20097
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[NASA-CASE-ARC-10275-1] c05 N72-22092
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[NASA-CASE-HFS-20332-2] c05 N73-25125
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[NASA-CASE-ARC-10599-1] c05 N73-26071
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[NASA-CASE-HSC-12609-1] c05 N73-32012
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[NASA-CASE-HSC-14331-1] c27 N76-24405
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[NASA-CASE-XMF-03248] c11 N71-10604
Digital computer system for automatic prelaunch checkout of spacecraft
[NASA-CASE-IKS-08012-2] c31 N71-15566
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- Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
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[NASA-CASE-XNP-01954] c28 N71-28850
- Vacuum chamber with scale model of rocket engine base area of space vehicle
[NASA-CASE-MFS-20620] c11 N72-27262
- SPACECRAFT ANTENNAS**
- Low loss parasitic probe antenna for prelaunch tests of spacecraft antennas
[NASA-CASE-XKS-09348] c09 N71-13521
- Millimeter wave antenna system for spacecraft use
[NASA-CASE-GSC-10949-1] c07 N71-28965
- Low weight, integrated thermoelectric generator/antenna combination for spacecraft
[NASA-CASE-XER-09521] c09 N72-12136
- Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
- Furlable antenna for spacecraft
[NASA-CASE-NFO-11361] c07 N72-32169
- Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NFO-11751] c07 N73-24176
- SPACECRAFT CABIN ATMOSPHERES**
- Thermal control wall panel with application to spacecraft cabins
[NASA-CASE-XLA-01243] c33 N71-22792
- Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c27 N74-17283
- Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c54 N77-32722
- SPACECRAFT COMMUNICATION**
- Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
- Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
- Design and development of tracking receiver for tracking satellites and receiving radio signal transmissions under adverse noise conditions
[NASA-CASE-XGS-08679] c10 N71-21473
- Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
- VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614
- System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NFO-10214] c10 N71-26577
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
- Switchable bandwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N76-27472
- SPACECRAFT COMPONENTS**
- Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
- Vibration damping system operating in low vacuum environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
- Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
- Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
- Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
- Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
- Design and development of release mechanism for spacecraft components, releasable despin weights, and extensible gravity booms
[NASA-CASE-XGS-08718] c15 N71-24600
- Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NFO-10141] c11 N71-24964
- Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
- Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NFO-10556] c14 N71-27185
- Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903
- Development of apparatus for mounting scientific experiments in spacecraft to permit utilization without maneuvering spacecraft
[NASA-CASE-MSC-12372-1] c31 N72-25842
- Airlock
[NASA-CASE-MFS-20922-1] c18 N74-22136
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c18 N74-27397
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
- SPACECRAFT CONFIGURATIONS**
- Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
- Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924
- Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
- Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
- Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
- Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132
- SPACECRAFT CONSTRUCTION MATERIALS**
- Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
- Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c26 N76-29401
- SPACECRAFT CONTROL**
- Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
- Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
- Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804
- Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938
- Attitude orientation control of spin stabilized final stage space vehicles, using horizon

- scanners
[NASA-CASE-XIA-00281] c21 N70-36943
- Aerodynamic configuration of reentry vehicle
heat shield to provide longitudinal and
directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
- Star sensor system for roll attitude control of
spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
- Photomultiplier detector of Canopus for
spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
- Development of spacecraft experiment pointing
and attitude control system
[NASA-CASE-XLA-05464] c21 N71-14132
- Development of attitude control system for
spacecraft orientation
[NASA-CASE-XGS-04393] c21 N71-14159
- Drive mechanism for operating reactance attitude
control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583
- Attitude detection system using stellar
references for three-axis control and spin
stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
- Large amplitude, linear inertial reference
system of vibrating string type for spacecraft
reference plane
[NASA-CASE-XAC-03107] c23 N71-16098
- Construction and method of arranging plurality
of ion engines to form cluster thereby
increasing efficiency and control by
decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
- Ion beam deflector system for electronic thrust
vector control for ion propulsion yaw, pitch,
and roll forces
[NASA-CASE-LW-10689-1] c28 N71-26173
- Heated porous plug microthruster for spacecraft
reaction jet controlled systems such as fuel
flow regulation, propellant disassociation,
and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
- Development of thrust control system for
application to control of aircraft and
spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
- All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c35 N77-20399
- SPACECRAFT DESIGN**
- Lunar landing flight research vehicle
[NASA-CASE-XFR-00929] c31 N70-34966
- Design and configuration of manned space capsule
[NASA-CASE-XIA-01332] c31 N71-15664
- Development of spacecraft radiator cover
[NASA-CASE-MSC-12049] c31 N71-16080
- Method and apparatus for connecting two
spacecraft with probe of one inserted in
rocket engine nozzle of other spacecraft
[NASA-CASE-MFS-11133] c31 N71-16222
- Development and characteristics of protective
coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
- Development and characteristics of self
supporting space vehicle
[NASA-CASE-XIA-00117] c31 N71-17680
- Multi-mission space vehicle module stage design
[NASA-CASE-XNP-01543] c31 N71-17730
- Development and characteristics of docking
structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
- Design and development of spacecraft with outer
shell structure heat shielding and built-in,
removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
- Spacecraft design with single point aerodynamic
and hydrodynamic stability for emergency
transport of men from space station to
splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
- Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
- Space vehicle system
[NASA-CASE-MSC-12561-1] c18 N76-17185
- Method and apparatus for neutralizing potentials
induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429
- SPACECRAFT DOCKING**
- Probe and drogue assembly for mechanical linking
of two space vehicles
[NASA-CASE-XMS-03613] c31 N71-16346
- Development and characteristics of docking
structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
- Latch for fastening spacecraft docking rings
[NASA-CASE-MSC-15474-1] c15 N71-26162
- High energy absorption docking system design for
docking large spacecraft
[NASA-CASE-MFS-20863] c31 N73-26876
- Latch mechanism
[NASA-CASE-MSC-12549-1] c37 N74-27903
- Spacecraft docking and alignment system ---
using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
- Multiple in-line docking capability for rotating
space stations
[NASA-CASE-MFS-20855-1] c15 N77-10112
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c37 N77-23483
- SPACECRAFT ELECTRONIC EQUIPMENT**
- Equipment for testing of ground station ranging
equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
- Describing apparatus used in vacuum deposition
of thin film inductive windings for spacecraft
microcircuitry
[NASA-CASE-XNP-01667] c15 N71-17647
- Nose cone mounted heat resistant antenna
comprising plurality of adjacent layers of
silica not introducing paths of high thermal
conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
- SPACECRAFT ENVIRONMENTS**
- Portable environmental control and life support
system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
- Quick disconnect latch and handle combination
for mounting articles on walls or supporting
bases in spacecraft under zero gravity
conditions
[NASA-CASE-MFS-11132] c15 N71-17649
- Dual solid cryogenics for spacecraft refrigeration
insuring low temperature cooling for extended
periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
- Dual stage check valve for cryogenic supply
systems used in space flight environmental
control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
- Metering gun for dispensing precisely measured
charges of fluid
[NASA-CASE-MFS-21163-1] c54 N74-17853
- Zero gravity separator
[NASA-CASE-LAR-10344-1] c35 N76-33470
- SPACECRAFT GUIDANCE**
- Automatic ejection valve for attitude control
and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
- Electrical and electromechanical trigonometric
computation assembly and space vehicle
guidance system for aligning perpendicular
axes of two sets of three-axes coordinate
references
[NASA-CASE-XNP-00684] c21 N71-21688
- Design and characteristics of device for sensing
solar radiation and providing spacecraft
attitude control to maintain direction with
respect to incident radiation
[NASA-CASE-XNP-05535] c14 N71-23040
- Inertial global alignment system for spacecraft
guidance
[NASA-CASE-XNP-01669] c21 N71-23289
- Hermetically sealed vibration damper design for
use in global assembly of spacecraft inertial
guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
- SPACECRAFT INSTRUMENTS**
- Mechanical coordinate converter for use with
spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
- Air bearings for spacecraft gyros
[NASA-CASE-XNP-00339] c15 N70-39896
- Unfolding boom assembly with knuckle joints for
positioning equipment for spacecraft
[NASA-CASE-XGS-00938] c32 N70-41367
- Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996

- Guidance analyzer having suspended spacecraft
simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
- Inertial component clamping assembly design for
spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
- Optical projector system for establishing
optimum arrangement of instrument displays in
aircraft, spacecraft, other vehicles, and
industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
- Combined optical attitude and altitude
indicating instrument for use in aircraft or
spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
- Spacecraft transponder and ground station radar
system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118
- Method and apparatus for providing active
attitude control for spacecraft by converting
any attitude motion of vehicle into simple
rotational motion
[NASA-CASE-BQN-10439] c21 N72-21624
- Design and development of thermomechanical pump
for transmitting varying fluid through fluid
circuit to control temperature of spacecraft
instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
- Deployable pressurized cell structure for a
micrometeoroid detector
[NASA-CASE-LAR-10295-1] c35 N74-21062
- SPACECRAFT LANDING**
- Non-reusable kinetic energy absorber for
application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
- Plastic foam generator for space vehicle
instrument payload package flotation in water
landing
[NASA-CASE-XLA-00838] c03 N70-36778
- Device for use in descending spacecraft as
altitude sensor for actuating deceleration
retro-rockets
[NASA-CASE-XMS-03792] c14 N70-41812
- SPACECRAFT LAUNCHING**
- Three stage motion restraining mechanism for
restraining and damping three dimensional
vibrational movement of gimbaled package
during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
- Development and characteristics of squib
actuated explosive disconnect for spacecraft
release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958
- SPACECRAFT MODELS**
- Space environment simulation system for
measuring spacecraft electric field strength
in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086
- SPACECRAFT MODULES**
- Radial module manned space station with
artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
- Multi-mission space vehicle module stage design
[NASA-CASE-XNP-01543] c31 N71-17730
- Design and development of spacecraft with outer
shell structure heat shielding and built-in,
removable excursion module
[NASA-CASE-HSC-13047-1] c31 N71-25434
- Development and characteristics of thermal
control system for maintaining constant
temperature within spacecraft module with wide
variations of component heat transfer
[NASA-CASE-GSC-11018-1] c31 N73-30829
- SPACECRAFT POSITION INDICATORS**
- Device for determining relative angular position
of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
- Spacecraft attitude sensing system design with
narrow field of view sensor rotating about
spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640
- SPACECRAFT POWER SUPPLIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
- Electrical power system for space flight
vehicles operating over extended periods
[NASA-CASE-XNP-00517] c03 N70-34757
- Lightweight, rugged, inexpensive satellite
battery for producing electrical power from
ionosphere using electrodes with different
contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408
- Design and development of electric generator for
space power system
[NASA-CASE-XLE-04250] c09 N71-20446
- Monostable multivibrator for conserving power in
spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
- Rectangular solar cell stacked panels to
generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
- Thermoelectric power system --- for spacecraft
[NASA-CASE-NFS-22002-1] c44 N76-16612
- Solar energy power system
[NASA-CASE-NFS-21628-2] c44 N76-23675
- SPACECRAFT PROPULSION**
- Colloidal particle generator for electrostatic
engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
- Spacecraft trajectory correction propulsion system
[NASA-CASE-XNP-01104] c28 N70-39931
- Permanently magnetized ion engine casing
construction for use in spacecraft propulsion
systems
[NASA-CASE-XNP-06942] c28 N71-23293
- Development of voice operated controller for
controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160
- SPACECRAFT RECOVERY**
- Assembly for opening flight capsule stabilizing
and decelerating flaps with reference to
capsule recovery
[NASA-CASE-XNP-00641] c31 N70-36410
- Method for deployment of flexible wing glider
from space vehicle with minimum impact and
loading
[NASA-CASE-XMS-00907] c02 N70-41630
- SPACECRAFT REENTRY**
- Manned space capsule configuration for orbital
flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
- Event recorder with constant speed motor which
rotates recording disk
[NASA-CASE-XLA-01832] c14 N71-21006
- SPACECRAFT SHIELDING**
- Development and characteristics of protective
coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
- Double-wall isothermal cylinder containing heat
transfer fluid thermal reservoir as spacecraft
insulation cover
[NASA-CASE-NFS-20355] c33 N71-25353
- Binder stabilized zinc oxide pigmented coating
for spacecraft thermal control
[NASA-CASE-XNP-07770-2] c18 N71-26772
- Thermal insulation protection means
[NASA-CASE-HSC-12737-1] c34 N77-22423
- SPACECRAFT STABILITY**
- Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
- Attitude sensor
[NASA-CASE-LAR-10586-1] c19 N74-15089
- Annular momentum control device used for
stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c15 N76-14158
- SPACECRAFT STRUCTURES**
- Collapsible, space erectable loop antenna system
for space vehicle
[NASA-CASE-XNP-00437] c07 N70-40202
- Electro-optical system for maintaining two-axis
alignment during milling operations on large
tank-sections
[NASA-CASE-XNP-00908] c14 N70-40238
- Development of spacecraft radiator cover
[NASA-CASE-HSC-12049] c31 N71-16080
- Design and construction of satellite appendage
tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
- Development and characteristics of thermal
sensitive panel for controlling ratio of solar
absorptivity to surface emissivity for space
vehicle temperature control
[NASA-CASE-XLA-07728] c33 N71-22890
- Space expandable tether device for use as
passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
- Delayed simultaneous appendage release mechanism
for use on spacecraft equipped with despin

- mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039
- Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
- Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222
- Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c37 N76-19437
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c34 N77-16382
- SPACECRAFT TELEVISION**
Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
- Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
- SPACECRAFT TRACKING**
Spacecraft ranging system
[NASA-CASE-NPO-10066] c09 N71-18598
- Elimination of tracking occultation problems occurring during continuous monitoring of interplanetary missions by using Earth orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
- Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c19 N74-21015
- Conical scan tracking system employing a large antenna --- for tracking spacecraft or radio source
[NASA-CASE-NFO-14009-1] c32 N77-28357
- SPACECREWS**
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
- SPALLATION**
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c25 N76-27383
- SPARK GAPS**
Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c05 N69-39897
- Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
- SPARK IGNITION**
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
- SPARK PLUGS**
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
- SPATIAL DISTRIBUTION**
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NFO-10185] c10 N71-26339
- SPATIAL FILTERING**
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
- Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c36 N77-32478
- SPECTRAL REFLECTANCE**
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NFO-11932-1] c35 N74-23040
- SPECTROMETERS**
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
- Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNF-09830] c14 N71-26266
- Makutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
- Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c14 N73-28491
- Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect
[NASA-CASE-MFS-21441-1] c14 N73-30392
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c35 N74-15091
- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c35 N74-23040
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613
- Frequency scanning particle size spectrometer
[NASA-CASE-NFO-13606-1] c35 N75-19627
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NFO-13772-1] c35 N76-26450
- Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NFO-13479-1] c35 N77-10492
- SPECTROPHOTOMETERS**
Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
- Particle size spectrometer and refractometer
[NASA-CASE-NPO-13614-1] c35 N75-19628
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NFO-13604-1] c35 N76-31490
- Differential optoacoustic absorption detector
[NASA-CASE-NFO-13759-1] c35 N77-11363
- SPECTROSCOPIC ANALYSIS**
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
- SPECTRUM ANALYSIS**
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
- Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XNP-02039] c15 N71-15871
- Method and apparatus for high resolution power spectrum analysis
[NASA-CASE-NFO-10748] c08 N72-20177
- SPECULAR REFLECTION**
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c35 N77-31465
- SPEECH RECOGNITION**
Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309
- SPEED CONTROL**
System for maintaining motor at predetermined speed using digital pulses
[NASA-CASE-XNP-06892] c09 N71-24805
- Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NFO-11210] c11 N72-20244
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
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Electrical power system for space flight
vehicles operating over extended periods
[NASA-CASE-XNP-00517] c03 N70-34157
High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915
Switching circuit with regeneratively connected
transistors eliminating power consumption when
not in use
[NASA-CASE-XNP-02654] c10 N70-42032
Using electron beam switching for brushless
motor commutation
[NASA-CASE-XGS-01451] c09 N71-10677
Increasing power conversion efficiency of
electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
Silicon controlled rectifier pulse gate
amplifier for blocking false gating caused by
negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
Describing magnetic core current switching
device for steering bipolar current pulses to
memory units
[NASA-CASE-NFO-10201] c08 N71-18694
Transistorized dc-coupled multivibrator with
noninverted output signal
[NASA-CASE-XNE-09450] c10 N71-18723
Reversible current directing circuitry for
reversible motor control
[NASA-CASE-XLA-09371] c10 N71-18724
Constructing Exclusive-Or digital logic circuit
in single module
[NASA-CASE-XLA-07732] c08 N71-18751
Polarization diversity monopulse tracking
receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Sight switch using infrared source and sensor
mounted beside eye
[NASA-CASE-XNP-03934] c09 N71-22985
Complementary regenerative transistorized switch
circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
Reliable magnetic core circuit apparatus with
application in selection matrices for digital
memories
[NASA-CASE-XNP-01318] c10 N71-23033
Electric circuit for producing high current
pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
Electric circuit for reversing direction of
current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Switching series regulator with gating control
network
[NASA-CASE-XMS-09352] c09 N71-23316
Microwave waveguide switch with rotor position
control
[NASA-CASE-XNP-06507] c09 N71-23548
Signaling summary alarm circuit with
semiconductor switch for faulty contact
indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
Solid state circuit for switching alternating
current input signal as function of direct
current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Inverters for changing direct current to
alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
Design and development of multistage current
steering switch with inductively coupled
magnetic cores
[NASA-CASE-XNP-08567] c09 N71-26000
Pulse duration control device for driving slow
response time loads in selected sequence
including switching and delay circuits and
magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Turn on current transient limiter for
controlling peak current flow in high capacity
load
[NASA-CASE-GSC-10413] c10 N71-26531

- Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
- Inverter drive circuit for semiconductor switch
[NASA-CASE-LZW-10233] c10 N71-27126
- Phase locked demodulator with bandwidth switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859
- Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MS-13492-1] c10 N71-28860
- Digital magnetic core memory with sensing amplifier circuits
[NASA-CASE-XNP-01012] c08 N71-28925
- Current regulating voltage divider design with load current shunting
[NASA-CASE-MFS-20935] c09 N71-34212
- Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NPO-11253] c09 N72-17157
- Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
[NASA-CASE-GSC-10669-1] c03 N72-20031
- Flow rate switch for detecting variations in fluid flow velocity through conduits of pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
- Switching type voltage regulator with relatively simple circuit arrangement
[NASA-CASE-LZW-11005-1] c09 N72-21243
- Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
- Pulse coupling circuit with switch between generator and winding
[NASA-CASE-LZW-10433-1] c09 N72-22197
- Solid state remote circuit selector switching circuit
[NASA-CASE-LZW-10387] c09 N72-22201
- Pressure operated electrical switch responsive to pressure decrease after pressure increase
[NASA-CASE-LAR-10137-1] c09 N72-22204
- Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236
- Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-KSC-10647-1] c10 N72-31273
- Electronic video editor for switching video input signals to common output channel
[NASA-CASE-KSC-10003] c10 N73-13235
- Solid state switch for variable circuit switching
[NASA-CASE-NPO-10817-1] c08 N73-30135
- Transparent switchboard which permits optical display devices to be adapted for use in man machine communications
[NASA-CASE-MS-13746-1] c10 N73-32143
- High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c33 N74-22814
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c33 N75-30429
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
- Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c60 N76-14818
- Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296
- Sustained arc ignition system
[NASA-CASE-LZW-12444-1] c33 N77-28385
- Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407
- SWITCHING THEORY**
- Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909
- Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134
- SWIVELS**
- Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-IMP-07808] c15 N71-23812
- SYNCHRONISM**
- Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
- Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
- Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
- Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
- Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
- System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
- SYNCHRONIZED OSCILLATORS**
- Development of phase demodulation system with two phase locked loops
[NASA-CASE-XNP-00777] c10 N71-19469
- Phase locked phase modulation system with voltage controlled oscillator for final phase linearity
[NASA-CASE-XNP-05382] c10 N71-23544
- Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247
- SYNCHRONIZERS**
- Development and characteristics of burst synchronization detection system
[NASA-CASE-XMS-05605-1] c10 N71-19468
- Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
- Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
- Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
- Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
- Pulse code modulated signal synchronizer
[NASA-CASE-MS-12462-1] c32 N74-20809
- Pulse code modulated signal synchronizer
[NASA-CASE-MS-12494-1] c32 N74-20810
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
- SYNCHRONOUS MOTORS**
- Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c33 N75-19524
- SYNCHRONOUS SATELLITES**
- Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
- Serrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
[NASA-CASE-XGS-01022] c07 N71-16088
- Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
- Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
- Satellite network synchronization system with multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
- Development of device for simulating charge and discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
- Camera arrangement --- for satellite scanning of earth or sky

- [NASA-CASE-GSC-12032-2] c35 N76-19408
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247
- SYNTHESIS**
Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XMF-08651] c06 N71-11236
Preparation of ordered poly(arylenesiloxane)/polymers
[NASA-CASE-XMF-10753] c06 N71-11237
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238
Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
[NASA-CASE-LEW-11325-1] c06 N73-27980
- SYNTHESIZERS**
Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
- SYNTHETIC FIBERS**
Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Composite lamination method --- of resin impregnated fiber tape
[NASA-CASE-LAR-12019-1] c24 N77-22179
- SYNTHETIC RESINS**
Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
[NASA-CASE-XNP-06508] c18 N69-39895
- SYSTEM FAILURES**
Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c35 N75-30504
- SYSTEMS ANALYSIS**
Analog to digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166
- SYSTEMS ENGINEERING**
Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039
Solar battery with interconnecting means for plural cells
[NASA-CASE-XNP-06506] c03 N71-11050
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-XMS-04935] c05 N71-11190
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285
Method and apparatus for measuring potentials in plasmas
[NASA-CASE-XIE-00821] c25 N71-15650
Design and operation of viscous pendulum damper
[NASA-CASE-XLA-02079] c12 N71-16894
Alarm system design for monitoring one or more relay circuits
[NASA-CASE-XMS-10984-1] c10 N71-19417
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
Design and operation of high speed binary to decimal conversion system
[NASA-CASE-XGS-01230] c08 N71-19544
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XNP-06065] c15 N71-20395
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Pneumatic cantilever beams and platform for space erectable structure
[NASA-CASE-XLA-01731] c32 N71-21045
Magnetically opened diaphragm design with camera, shutter and expansion tube applications
[NASA-CASE-XLA-03660] c15 N71-21060
Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMF-03212] c15 N71-22721
Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-24722
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-XMF-01083] c15 N71-22723
Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
Method of stationkeeping for lenticular gravity gradient satellites
[NASA-CASE-XLA-03132] c31 N71-22969
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
Multisample test chamber for exposing materials to X rays, temperature change, and gaseous conditions and determination of material effects
[NASA-CASE-XMS-02930] c11 N71-23042
Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084
Sealed electrochemical cell with flexible casing for varying electrolyte level in cell
[NASA-CASE-XGS-01513] c03 N71-23336
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Device for measuring two orthogonal components of force with gallium flotation of measuring target for use in vacuum environments
[NASA-CASE-XAC-04885] c14 N71-23790
Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597
Method of attaching cover glass to silicon solar cell without using adhesive
[NASA-CASE-XLE-08569-2] c03 N71-24681
Development of attitude control system for sounding rocket stabilization during ballistic phase of flight
[NASA-CASE-XGS-01654] c31 N71-24750
Temperature telemetric transmitter with frequency determining tank circuit for short range transmission
[NASA-CASE-NPO-10649] c07 N71-24840
Tuning arrangement for frequency control of magnetron-type electron discharge device
[NASA-CASE-XNP-09771] c09 N71-24841

Broadband modified turnstile antenna for use in space tracking and communications
[NASA-CASE-MSC-12209] c09 N71-24842

Apparatus to determine electric field strength by measuring deflection of electron beam impinging on target
[NASA-CASE-XMF-06617] c09 N71-24843

Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890

Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-05759] c18 N71-24891

Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903

Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904

Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975

Sealed fluorescent tube light unit capable of connection with other units to form string of work lights
[NASA-CASE-XKS-05932] c09 N71-26787

Apparatus for semiautomatic inspection of microfilmed documents for density, resolution, size, and position
[NASA-CASE-MFS-20240] c14 N71-26788

Method and apparatus for remote measurement of displacement of marks on specimen undergoing tensile test
[NASA-CASE-NFO-10778] c14 N72-11364

Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
[NASA-CASE-GSC-10669-1] c03 N72-20031

Electric storage battery with high impact resistance
[NASA-CASE-NFO-11021] c03 N72-20032

Method and apparatus for providing active attitude control for spacecraft by converting any attitude motion of vehicle into simple rotational motion
[NASA-CASE-HQN-10439] c21 N72-21624

Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NFO-11311] c14 N72-25414

Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595

Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NFO-13086-1] c15 N73-12495

Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LPR-10531-1] c02 N73-13023

Measurement system for physical quantity represented by or converted to variable frequency signal
[NASA-CASE-MFS-20658-1] c14 N73-30386

Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c35 N74-13132

Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c74 N74-27866

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124

Improved solar heating system
[NASA-CASE-LAR-12009-1] c44 N76-32649

A non-tracking solar energy collector system
[NASA-CASE-NFO-13813-1] c44 N77-19579

A cantilever mounted resilient pad gas bearing
[NASA-CASE-LFW-12569-1] c37 N77-24496

Compact pulsed laser having improved heat conductance

[NASA-CASE-NFO-13147-1]

c36 N77-25502

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TACHYMETERS

Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896

Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904

Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-MFS-20418] c14 N73-24473

Tachometer
[NASA-CASE-MFS-23175-1] c35 N77-30436

TAKOFF
Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807

Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157

TANGENTS
Integrated circuit tangnet function generator
[NASA-CASE-MSC-13907-1] c10 N73-26230

TANK GEOMETRY
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XMF-01899] c31 N70-41948

TANKS (CONTAINERS)
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348

Development of apparatus and method for testing leakage of large tanks
[NASA-CASE-XMF-02392] c32 N71-24285

Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496

Floating baffle for tank drain
[NASA-CASE-RSC-10639] c15 N73-26472

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NFO-13050-1] c36 N75-15029

TANTALUM
Oxygen-doped tantalum emitter for thermionic devices such as cesium vapor diodes
[NASA-CASE-NFO-11138] c03 N70-34646

Arc electrode of graphite with tantalum ball tip
[NASA-CASE-XLE-04788] c09 N71-22987

Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808

Tantalum modified ferritic iron base alloys --- for use in high temperature environments
[NASA-CASE-LFW-12095-1] c26 N76-17233

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LFW-12050-1] c35 N77-32454

TANTALUM ALLOYS
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483

TANTALUM CARBIDES
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436

TANTALUM OXIDES
Development of thin film temperature sensor from TaO
[NASA-CASE-NFO-11775] c26 N72-28761

TAPE RECORDERS
Plural recorder system which limits signal recording to signals of sufficient interest
[NASA-CASE-XMS-06949] c09 N69-21467

Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-IGS-01223] c07 N71-10609

Development of low friction magnetic recording tape

- [NASA-CASE-XGS-00373] c23 N71-15978
Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Development of data storage system for storing digital data in high density format on magnetic tape
[NASA-CASE-XNP-02778] c08 N71-22710
Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
Closed loop servosystem for variable speed tape recorders onboard spacecraft
[NASA-CASE-NPO-10700] c07 N71-33613
Design and characteristics of recording system for selective reprocessing and filtering of data to obtain optimum signal to noise ratios
[NASA-CASE-ERC-10112] c07 N72-21119
Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-NPO-10166-1] c07 N73-22076
Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c35 N77-17426
- TAPERED COLUMNS**
Method for shaping regeneratively cooled rocket motor casing having minimum thickness at each channel cross section
[NASA-CASE-XIX-00409] c28 N71-15658
Regeneratively cooled rocket motor casing with tapered channels to insure minimum thicknesses at each channel cross section for necessary strength requirements
[NASA-CASE-XIX-05689] c28 N71-15659
- TARGET ACQUISITION**
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
- TARGET RECOGNITION**
Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980
- TARGET SIMULATORS**
Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c14 N77-18179
- TECHNOLOGY TRANSFER**
Stator rotor tools
[NASA-CASE-MSC-16000-1] c07 N77-13062
- TECHNOLOGY UTILIZATION**
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c27 N77-10198
Rotary leveling base platform
[NASA-CASE-ARC-1C981-1] c35 N77-10498
Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12012-1] c36 N77-10517
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LRW-12232-1] c07 N77-18160
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N77-19459
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c32 N77-24339
- TEFLON (TETRAFLUOROETHYLENE)**
Reinforced FEP Teflon composite material diffusion bonded to metal substrate
[NASA-CASE-MFS-20482] c15 N72-22492
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NFO-13050-1] c36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c44 N76-27664
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Adaptive compression signal processor for PCM communication systems
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- Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQM-10364] c06 N71-27363
- TEXTILES**
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c27 N76-24405
- THERMAL ABSORPTION**
- Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-INP-04208] c33 N71-29051
- THERMAL CONDUCTIVITY**
- Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156
- Development of apparatus for measuring thermal conductivity
[NASA-CASE-XGS-01052] c14 N71-15992
- Heated element sensor for fluid flow detection in thermal conductive conduit with adaptive means to determine flow rate and direction
[NASA-CASE-MSC-12084-1] c12 N71-17569
- Method and apparatus for adjusting thermal conductance in electronic components for space use
[NASA-CASE-XNE-05524] c33 N71-24876
- Thermally conductive polymer for potting electrical components
[NASA-CASE-GSC-11304-1] c06 N72-21105
- Electrostatically controlled heat transfer system for conducting thermal energy
[NASA-CASE-NEO-11942-1] c33 N73-32818
- THERMAL CONDUCTORS**
- Thermal conductive, electrically insulated cleavable adhesive connection between electronic module and heat sink
[NASA-CASE-XMS-02087] c09 N70-41717
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N76-22657
- THERMAL CONTROL COATINGS**
- Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XIA-01995] c18 N71-23047
- Binder stabilized zinc oxide pigmented coating for spacecraft thermal control
[NASA-CASE-INP-07770-2] c18 N71-26772
- Inorganic thermal control and solar reflector coatings
[NASA-CASE-MFS-20011] c18 N72-22566
- Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
- Lightweight electrically powered flexible thermal laminate --- made of metal fibers
[NASA-CASE-MSC-12662-1] c24 N75-16635
- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
- Thermal barrier coating system
[NASA-CASE-LFW-12554-1] c24 N76-23359
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c34 N77-18382
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c27 N77-30237
- THERMAL DEGRADATION**
- Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146
- Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-INP-03968] c14 N71-27186
- THERMAL ENERGY**
- Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
- Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234

- Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors [NASA-CASE-LAR-10373-1] c18 N71-26155
- Gaseous core diffusion nuclear reactor for thermal energy generation [NASA-CASE-LEW-10250-1] c22 N71-28759
- Electrostatically controlled heat transfer system for conducting thermal energy [NASA-CASE-NFO-11942-1] c33 N73-32818
- Solid medium thermal engine [NASA-CASE-ARC-10461-1] c44 N74-33379
- Panel for selectively absorbing solar thermal energy and the method of producing said panel [NASA-CASE-MFS-22562-1] c44 N76-14595
- Thermal energy storage system --- operating on superheating of liquids [NASA-CASE-MFS-23167-1] c44 N76-31667
- A thermal energy transformer [NASA-CASE-NFO-14058-1] c44 N77-30616
- Low to high temperature energy conversion system [NASA-CASE-NFO-13510-1] c44 N77-32581
- THERMAL EXPANSION**
- Gas valve operated by thermally expanding and contracting device [NASA-CASE-XLE-00815] c15 N70-35407
- Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates [NASA-CASE-INP-08907] c23 N71-29123
- Application of spiral, bimetallic strip to create circular motion on mechanical shaft by changing strip temperature [NASA-CASE-NFO-11283] c09 N72-25260
- Glass-to-metal seals comprising relatively high expansion metals [NASA-CASE-LEW-10698-1] c37 N74-21063
- THERMAL FATIGUE**
- Automatic controlled thermal fatigue testing apparatus [NASA-CASE-XLA-02059] c33 N71-24276
- THERMAL INSULATION**
- Low thermal loss piping arrangement for moving cryogenic media through double chamber structure [NASA-CASE-INP-08882] c15 N69-39935
- Insulating system for receptacles of liquefied gases using wire cloth for forming frost layer [NASA-CASE-INP-00341] c15 N70-33323
- Unfired-ceramic, highly reflective composite insulation for large launch vehicles [NASA-CASE-INP-01030] c18 N70-41583
- Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin [NASA-CASE-XLA-01967] c31 N70-42015
- Preparation and characteristics of lightweight refractory insulation [NASA-CASE-INP-05279] c18 N71-16124
- Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles [NASA-CASE-XLA-00892] c33 N71-17897
- Prefabricated multilayered self-evacuating insulation panels using gas with low vapor pressure at cryogenic temperatures for application to storage of cryogenics [NASA-CASE-XLE-04222] c23 N71-22881
- Light weight plastic foam thermal insulation for cryogenic storage [NASA-CASE-XLE-02647] c18 N71-23658
- Development of foam insulation for filament wound cryogenic storage tank [NASA-CASE-XLE-03803] c15 N71-23816
- Multilayer insulation panels for cryogenic liquid containers [NASA-CASE-MFS-14023] c33 N71-25351
- Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover [NASA-CASE-MFS-20355] c33 N71-25353
- Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits [NASA-CASE-MSC-12109] c18 N71-26285
- Foam insulation thickness measuring and injection device for spacecraft applications [NASA-CASE-MFS-20261] c14 N71-27005
- Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft [NASA-CASE-INP-05046] c33 N71-28892
- Para-benzoquinone dioxide and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials [NASA-CASE-ARC-10304-1] c18 N73-26572
- Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer [NASA-CASE-GSC-11018-1] c31 N73-30829
- Heater-mixer for stored fluids [NASA-CASE-ARC-10442-1] c35 N74-15093
- Intumescent composition, foamed product prepared therewith and process for making same [NASA-CASE-ARC-10304-2] c27 N74-27037
- High current electrical lead --- for thermionic converters [NASA-CASE-LEW-10950-1] c33 N74-27683
- Structural heat pipe --- for spacecraft wall thermal insulation system [NASA-CASE-GSC-11619-1] c34 N75-12222
- Insulation foil and method of making [NASA-CASE-LEW-11484-2] c24 N75-14839
- Thermal insulation attaching means [NASA-CASE-MSC-12619-1] c39 N75-21671
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts [NASA-CASE-MSC-14182-1] c27 N76-14264
- Ceramic fiber insulating material and methods of producing same --- product development of foams for thermal insulation [NASA-CASE-MSC-14795-1] c27 N76-15314
- Auger attachment method for insulation --- of spacecraft [NASA-CASE-MSC-12615-1] c37 N76-19437
- Flexible pile thermal barrier seal [NASA-CASE-MSC-19568-1] c37 N76-23585
- Extreme temperature thermal control coating [NASA-CASE-LAE-11756-1] c24 N76-26284
- Intumescent-ablator coatings using endothermic fillers [NASA-CASE-ARC-11043-1] c34 N77-14372
- Thermal insulation protection means [NASA-CASE-MSC-12737-1] c34 N77-22423
- Thermal insulation attaching means --- adhesive bonding of felt vibration isolators under ceramic tiles [NASA-CASE-MSC-12619-2] c16 N77-31237
- THERMAL FLASHES**
- Apparatus for producing monochromatic light from continuous plasma source [NASA-CASE-INP-04167-2] c25 N72-24753
- THERMAL PROTECTION**
- Thermoprotective device for balances [NASA-CASE-XAC-00648] c14 N70-40400
- Design, development, and characteristics of ablation structures [NASA-CASE-INP-01816] c33 N71-15623
- Development of spacecraft radiator cover [NASA-CASE-MSC-12049] c31 N71-16080
- Characteristics of foamed-in-place ceramic refractory insulating material and method of fabrication [NASA-CASE-IGS-02435] c18 N71-22998
- Unfired ceramic insulation for protection from radiant heating environments [NASA-CASE-MFS-14253] c33 N71-24858
- Development of solid state polymer coating for obtaining thermal balance in spacecraft components [NASA-CASE-XIA-01745] c33 N71-28903
- Anodizing method for providing metal surfaces with temperature reducing coatings against flames [NASA-CASE-XLE-00035] c33 N71-29151
- Ablative heat shield for protection from aerodynamic heating of reentry spacecraft [NASA-CASE-MSC-12143-1] c33 N72-17947
- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices [NASA-CASE-ARC-10180-1] c27 N74-12814
- Thermal insulation attaching means [NASA-CASE-MSC-12619-1] c39 N75-21671
- Reaction cured glass and glass coatings [NASA-CASE-ARC-11051-1] c27 N77-10201

- Intumescent coating containing
4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c24 N77-11119
- THERMAL RADIATION**
- Miniaturized radiometer for detecting low level
thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
- Temperature sensitive capacitor device for
detecting very low intensity infrared radiation
[NASA-CASE-XNP-09750] c14 N69-39937
- High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
- Development and characteristics of thermal
radiation shielding of refractory metal foil
used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
- Black body cavity radiometer with thermal
resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
- Development of method for protecting large and
oddly shaped areas from radiant and convective
heat
[NASA-CASE-XNP-01310] c33 N71-28852
- THERMAL REACTORS**
- Fuel system for thermal nuclear reactor which
uses inorganic ion exchanger
[NASA-CASE-LEW-11645-2] c22 N73-28660
- Nonequilibrium radiation nuclear reactor
[NASA-CASE-HCN-10841-1] c73 N75-22108
- THERMAL RESISTANCE**
- Single electrical circuit component combining
diode, fuse, and blow indicator with
elongated tube of heat resistant transparent
material
[NASA-CASE-XKS-03381] c09 N71-22796
- Polyimide foam for the thermal insulation and
fire protection
[NASA-CASE-ARC-10464-1] c27 N74-12812
- Dual measurement ablation sensor
[NASA-CASE-IAR-10105-1] c34 N74-15652
- Self-regulating proportionally controlled
heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140
- Heat resistant polymers of oxidized
styrylphosphine
[NASA-CASE-HSC-14903-1] c27 N76-28425
- THERMAL SHOCK**
- Development of equipment for measuring thermal
shock resistance of thin discs of material
[NASA-CASE-XLB-02024] c14 N71-22964
- Thermal shock resistant hafnia ceramic materials
[NASA-CASE-LAR-10894-1] c18 N73-14584
- Thermal shock and erosion resistant tantalum
carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N76-23436
- THERMAL SIMULATION**
- Simulating operation of thermopile vacuum gage
tube at high and low pressures
[NASA-CASE-XLA-02758] c14 N71-18481
- THERMAL STABILITY**
- Bonded solid lubricant coatings of calcium
fluoride and binder for high temperature
stability
[NASA-CASE-XMS-00259] c18 N70-36400
- Portable environmental control and life support
system for astronaut in and out of spacecraft
[NASA-CASE-IHS-09632-1] c05 N71-11203
- Chemical synthesis of thermally stable
organometallic polymers with divalent metal
ion and tetraphenylphosphonitrilic units
[NASA-CASE-HCN-10364] c06 N71-27363
- Cermet for nuclear fuel constructed by pressing
metal coated ceramic particles in die at
temperature to cause bonding of metal
coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
- Ultraviolet and thermally stable polymer
compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
- Ultraviolet and thermally stable polymer
compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
- THERMAL STRESSES**
- Multilegged support system for wind tunnel test
models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481
- Development of device for simulating cyclic
thermal loading of flexible materials by
application of mechanical stresses and
deformations
[NASA-CASE-LAR-10270-1] c32 N72-25877
- Apparatus and method for reducing thermal stress
in a turbine rotor
[NASA-CASE-LEW-12232-1] c07 N77-18160
- THERMIONIC CATHODES**
- Thermionic cesium diode converter with cavity
emitters
[NASA-CASE-NFO-10412] c09 N71-28421
- THERMIONIC CONVERTERS**
- Vacuum thermionic converter with short-circuited
triodes and increased electron transmission
and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898
- Thermionic converter for converting heat energy
directly into electrical energy
[NASA-CASE-XLE-01903] c22 N71-23599
- Thermionic cesium diode converter with cavity
emitters
[NASA-CASE-NFO-10412] c09 N71-28421
- Development and characteristics of solar cells
with phosphors in cover glass to improve
response to solar ultraviolet radiation
[NASA-CASE-ARC-10050] c03 N71-33409
- Reactor heated in-core diodes for energy
conversion
[NASA-CASE-NFO-10542] c09 N72-27228
- High current electrical lead --- for thermionic
converters
[NASA-CASE-LEW-10950-1] c33 N74-27683
- Electric power generation system directory from
laser power
[NASA-CASE-NFO-13308-1] c36 N75-30524
- High temperature resistant cermet and ceramic
compositions --- for use in thermionic
converters or diodes
[NASA-CASE-NFO-13690-1] c27 N76-13294
- Nuclear thermionic converter ---
tungsten-thorium oxide rods
[NASA-CASE-NFO-13121-1] c73 N77-18891
- Cesium thermionic converters having lanthanum
hexaboride electrodes
[NASA-CASE-LEW-12038-2] c44 N77-32595
- THERMIONIC DIODES**
- Electric power system utilizing thermionic
plasma diodes in parallel and heat pipes as
cathodes
[NASA-CASE-XNP-05843] c03 N71-11055
- Thermionic diode switch for use in high
temperature region to chop current from dc
source
[NASA-CASE-NFO-10404] c03 N71-12255
- Microamperemeter current measuring circuit, with
two subminiature thermionic diodes with
filament cathodes
[NASA-CASE-XNP-00384] c09 N71-13530
- Electric power system with thermionic diodes and
circulatory liquid metal coolant lines
[NASA-CASE-NFS-14114] c33 N71-27862
- Reactor heated in-core diodes for energy
conversion
[NASA-CASE-NFO-10542] c09 N72-27228
- High temperature resistant cermet and ceramic
compositions --- for use in thermionic
converters or diodes
[NASA-CASE-NFO-13690-1] c27 N76-13294
- THERMIONIC EMITTERS**
- Oxygen-doped tantalum emitter for thermionic
devices such as cesium vapor diodes
[NASA-CASE-NFO-11138] c03 N70-34646
- THERMIONIC POWER GENERATION**
- Control for nuclear thermionic power source ---
power supply circuits, energy policy
[NASA-CASE-NFO-13114-2] c44 N76-15573
- THERMISTORS**
- Matched thermistors for microwave power meters
with compensation for temperature changes
[NASA-CASE-NFO-10348] c10 N71-12554
- Thermistor holder for skin temperature
measurements
[NASA-CASE-ARC-10855-1] c52 N77-10780
- THERMOCHROMATIC MATERIALS**
- Thermochromic compositions for detecting heat
levels in electronic circuits and devices
[NASA-CASE-NFO-10764-1] c14 N73-14428
- Heat detection and compositions and devices
therefor
[NASA-CASE-NFO-10764-2] c35 N75-25122

THERMOCOUPLE PYROMETERS

Dual measurement ablative sensor
[NASA-CASE-IAR-10105-1] c34 N74-15652

THERMOCOUPLES

Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459

Gas cooled high temperature thermocouple
[NASA-CASE-XLE-05475-1] c33 N71-15568

Control of fusion welding through use of thermocouple wire
[NASA-CASE-MFS-06074] c15 N71-20393

Heat sensing instrument, using thermocouple junction connected under heavy conducting material
[NASA-CASE-XIA-01551] c14 N71-22989

Design and characteristics of thermocouples consisting of flexible tape for improved attachment to temperature source
[NASA-CASE-XNP-01659] c14 N71-23039

Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NFO-10691] c14 N71-26199

Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410

Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417

Development of flexible thermocouple in form of tape for adaptation to special temperature measuring conditions
[NASA-CASE-LEW-11072-1] c14 N73-24472

Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-1] c35 N76-19407

Thermocouple installation
[NASA-CASE-NFO-13540-1] c35 N77-14409

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454

THERMODYNAMIC PROPERTIES

Development of equipment for measuring thermal shock resistance of thin discs of material
[NASA-CASE-XLE-02024] c14 N71-22964

Characteristics of fumed-in-place ceramic refractory insulating material and method of fabrication
[NASA-CASE-XGS-02435] c18 N71-22998

Operating properties of superconducting magnet in vacuum environment
[NASA-CASE-XNP-06503] c23 N71-29049

Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415

THERMOELECTRIC GENERATORS

Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-XGS-04808] c03 N69-25146

Procedure for segmenting lead telluride and silicon germanium thermoelectric elements to obtain composite elements effective over wide temperature range
[NASA-CASE-XGS-05718] c26 N71-16037

Low weight, integrated thermoelectric generator/antenna combination for spacecraft
[NASA-CASE-XER-09521] c09 N72-12136

Thermally cascaded thermoelectric generator with radioisotopic heat source
[NASA-CASE-NFO-10753] c03 N72-26031

THERMOELECTRIC MATERIALS

Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786

Procedure for segmenting lead telluride and silicon germanium thermoelectric elements to obtain composite elements effective over wide temperature range
[NASA-CASE-XGS-05718] c26 N71-16037

THERMOELECTRIC POWER GENERATION

Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803

Operation method for combined electrolysis device and fuel cell using molten salt to produce power by thermoelectric regeneration mechanism
[NASA-CASE-XLE-01645] c03 N71-20904

Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c44 N76-16612

THERMOELECTRICITY

Development of flexible thermocouple in form of tape for adaptation to special temperature measuring conditions
[NASA-CASE-LEW-11072-1] c14 N73-24472

Device for measuring thermoelectric properties of materials under high pressure
[NASA-CASE-NFO-11749] c14 N73-28486

THERMOLUMINESCENCE

Method for detecting oxygen in gas by thermoluminescence
[NASA-CASE-LAR-10668-1] c06 N73-16106

A method for aerosol analysis by thermoluminescence
[NASA-CASE-LAR-12046-1] c45 N77-17609

THERMOMAGNETIC EFFECTS

Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NFO-11317-2] c36 N74-13205

THERMOMETERS

Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c35 N77-27368

THERMOPHYSICAL PROPERTIES

Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c09 N77-27131

THERMOPILES

Differential thermopile for measuring cooling water temperature rise
[NASA-CASE-XAC-00812] c14 N71-15598

Horizon sensor design with digital sampling of spaced radiation-compensated thermopile infrared detectors
[NASA-CASE-XNP-06957] c14 N71-21088

Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NFO-11493] c14 N73-12447

THERMOPLASTIC RESINS

Boron trifluoride coatings for thermoplastic materials
[NASA-CASE-ARC-11057-1] c27 N77-26308

THERMOREGULATION

Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147

THERMOSETTING RESINS

Vacuum method for molding thermosetting compounds used as ablative materials
[NASA-CASE-XIA-01091] c15 N71-10672

Procedure for bonding polytetrafluoroethylene thermal protective sleeves to magnesium alloy conical shell components with different thermal coefficients
[NASA-CASE-XLA-01262] c15 N71-21404

Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means
[NASA-CASE-XNP-01402] c18 N71-21651

Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NFO-11036] c15 N72-24522

Fluorinated polyurethanes produced by reacting hydroxy terminated perfluoro polyether with diisocyanate
[NASA-CASE-NFO-10767-2] c06 N72-27151

Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c31 N74-18124

- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
- THERMOSTATS**
Thermal switch for transferring excess heat from one region to another heat dissipating one
[NASA-CASE-XNP-00463] c33 N70-36847
Design and development of linear actuator based on bimetallic spring expansion
[NASA-CASE-NPO-10637] c15 N72-12409
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602
- THICK FILMS**
Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762
- THICKNESSES**
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895
- THIN FILMS**
Temperature sensitive capacitor device for detecting very low intensity infrared radiation
[NASA-CASE-XNP-05750] c14 N69-39937
Means and methods of depositing thin films on substrates
[NASA-CASE-XNP-00595] c15 N70-34967
Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLB-00808] c24 N71-10560
Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry
[NASA-CASE-XNP-01667] c15 N71-17647
Describing method for vapor deposition of gallium arsenide films to manganese substrates to provide semiconductor devices with low resistance substrates
[NASA-CASE-XNP-01328] c26 N71-18064
Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-XGS-02812] c09 N71-19466
Sputter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XNP-06065] c15 N71-20395
Binding layer of semiconductor particles by electrodeposition
[NASA-CASE-XNP-01959] c26 N71-23043
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NPO-10331] c09 N71-26701
Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232
Electrical connections for thin film hybrid microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
Single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c09 N72-22199
Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
Thin absorbing metallic film for increased visible light transmission
[NASA-CASE-LAR-10836-1] c26 N72-27784
Development of thin film microwave iris installed in microwave waveguide transverse to flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172
Development of procedure for producing thin transparent films of zinc oxide on transparent refractory substrate
[NASA-CASE-FRC-10019] c15 N73-12487
Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
Dual wavelength system for monitoring film deposition
[NASA-CASE-MFS-20675] c26 N73-26751
- Thin film analyzer utilizing holographic techniques
[NASA-CASE-MFS-20823-1] c16 N73-30476
Transparent switchboard which permits optical display devices to be adapted for use in man machine communications
[NASA-CASE-MSC-13746-1] c10 N73-32143
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c25 N74-18551
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
System for depositing thin films
[NASA-CASE-MFS-20775-1] c31 N75-12161
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
Method of forming metal hydride films
[NASA-CASE-LFW-12083-1] c26 N76-18262
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c31 N76-31365
- THIN PLATES**
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c35 N76-15435
- THIN WALLED SHELLS**
Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads
[NASA-CASE-XLB-04677] c15 N71-10577
- THIN WALLS**
Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLB-00144] c28 N70-34860
Sealed separable connection for thin wall metal tube
[NASA-CASE-NPO-10064] c15 N71-17693
Low mass truss structure with elongated thin-walled tubular segments
[NASA-CASE-LAR-10546-1] c11 N72-25287
Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch
[NASA-CASE-MFS-14216] c14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c31 N74-18089
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c31 N74-21059
- THORIUM FLUORIDES**
Ultraviolet filter of thorium fluoride and cryolite on quartz base
[NASA-CASE-XNP-02340] c23 N69-24332
- THORIUM OXIDES**
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c73 N77-18891
- THREADS**
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XNP-04966] c14 N71-17658
Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonwalleable materials in both ends
[NASA-CASE-XPR-05302] c15 N71-23254
- THREE DIMENSIONAL MOTION**
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942
- THRESHOLD GATES**
Apparatus with summing network for compression of analog data by decreasing slope threshold sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
- THRESHOLD LOGIC**
Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
- THRUST AUGMENTATION**
Exhaust nozzle with afterburning for generating thrust

- [NASA-CASE-XLA-00154] c28 N70-33374
Construction and method of arranging plurality
of ion engines to form cluster thereby
increasing efficiency and control by
decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Reversed cowli flap inlet thrust augmentor ---
with adjustable airfoil
[NASA-CASE-ARC-1C754-1] c07 N75-24736
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-1] c08 N77-22147
- THRUST BEARINGS**
Thrust bearing
[NASA-CASE-LFW-11949-1] c37 N76-29588
- THRUST CHAMBERS**
Rocket chamber leak test fixture using tubular
plug
[NASA-CASE-XFR-09479] c14 N69-27503
Supporting and protecting frame structure and
plug for empty thrust chamber assembly,
handling, and shipping
[NASA-CASE-XNP-00580] c11 N70-35383
Large area-ratio nozzles for rocket motor thrust
chambers
[NASA-CASE-XLE-00145] c28 N70-36806
Method for shaping regeneratively cooled rocket
motor casing having minimum thickness at each
channel cross section
[NASA-CASE-XLE-00409] c28 N71-15658
Regeneratively cooled rocket motor casing with
tapered channels to insure minimum thicknesses
at each channel cross section for necessary
strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659
Rocket engine injector orifice to accommodate
changes in density, velocity, and pressure,
thereby maintaining constant mass flow rate of
propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Fuel and oxidizer injection head for thrust
chamber of reaction engine
[NASA-CASE-NPO-10046] c28 N72-17843
Continuous gas flow control by fluidic
proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
Radial magnetic field for ion thruster
[NASA-CASE-LFW-10770-1] c28 N72-22770
Thermal flux transfer system for maintaining
thrust chamber of operative reaction motor at
given temperatures
[NASA-CASE-NPO-12070-1] c28 N73-32606
- THRUST CONTROL**
Electromechanical actuator and its use in rocket
thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185
Solid propellant rocket vehicle thrust control
method and apparatus
[NASA-CASE-XNP-00217] c28 N70-38181
Thrust and attitude control apparatus using jet
nozzle in movable canard surface or fin
configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Detonation reaction engine comprising outer
housing enclosing pair of inner walls for
continuous flow
[NASA-CASE-XNP-06926] c28 N71-22983
Low mass ionizing device for use in electric
thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
Heated porous plug microthruster for spacecraft
reaction jet controlled systems such as fuel
flow regulation, propellant disassociation,
and heat transfer augmentation
[NASA-CASE-GSC-10690-1] c28 N72-18766
Multi-purpose wind tunnel reaction control model
block
[NASA-CASE-MSC-19706-1] c09 N77-19077
- THRUST LOADS**
Thrust measurement
[NASA-CASE-XNS-05731] c35 N75-29382
- THRUST MEASUREMENT**
Dynamometer measuring microforce thrust produced
by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
Development of thrust dynamometer for measuring
performance of jet and rocket engines
[NASA-CASE-XIB-05260] c14 N71-20429
Development of temperature compensated thrust
measuring gage for measuring forces as
- function of time in environment with varying
temperature
[NASA-CASE-XGS-02319] c14 N71-22965
Micro-pound extended range thrust stand for
small rocket engines
[NASA-CASE-GSC-10710-1] c28 N71-27094
- THRUST VECTOR CONTROL**
Thrust vector control by secondary injection of
fluid into rocket nozzle flow field to
separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
High velocity guidance and spin stabilization
gyro controlled jet reaction system for launch
vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Ion beam deflector system for electronic thrust
vector control for ion propulsion yaw, pitch,
and roll forces
[NASA-CASE-LFW-10689-1] c28 N71-26173
Tertiary flow injection system for thrust
vectoring of propulsive nozzle flow
[NASA-CASE-NFS-20831] c28 N71-29153
Development of thrust control system for
application to control of aircraft and
spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
Development of vortex fluid amplifier for
throttling rocket exhaust
[NASA-CASE-LFW-10374-1] c28 N73-13773
System for imposing directional stability on a
rocket-propelled vehicle
[NASA-CASE-NFS-21311-1] c20 N76-21275
- THRUST-WEIGHT RATIO**
Launch pad missile release system with bending
moment change rate reduction in thrust
distribution structure at liftoff
[NASA-CASE-XNP-03198] c30 N70-40353
- THYROID GLAND**
Apparatus for producing high purity I-123 ---
for thyroid measurement
[NASA-CASE-LFW-10518-3] c31 N74-10476
- TILES**
Strain arrestor plate for fused silica tile ---
bonding of thermal insulation to metallic
plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264
- TILT WING AIRCRAFT**
An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135
- TIME CONSTANT**
Variable time constant, wide frequency range
smoothing network for noise removal from pulse
chains
[NASA-CASE-XGS-01983] c10 N70-41964
- TIME DISCRIMINATION**
Extra-long monostable multivibrator employing
bistable semiconductor switch to allow
charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
- TIME DIVISION MULTIPLEXING**
Synchronizing apparatus for multi-access
satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
Time division multiplexer with magnetic latching
relays
[NASA-CASE-XNP-00431] c09 N70-38998
Data processor having multiple sections
activated at different times by selective
power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
Minimum time delay unit for conventional time
multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Time division relay synchronizer with master
sync pulse for activating binary counter to
produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Sampling circuit for signal processing in
multiplex transmission by Fourier analysis
[NASA-CASE-NPO-10388] c07 N71-24622
Time division multiplexed telemetry transmitting
system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624
- TIME FUNCTIONS**
Cathode ray oscilloscope for analyzing
electrical waveforms representing amplitude
distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659

- TIME LAG**
Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
Apparatus for estimating amplitude and sign of phase difference or time lag between two signals
[NASA-CASE-NFO-11203] c10 N72-20224
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c32 N77-31350
- TIME MEASURING INSTRUMENTS**
Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
- TIME OF FLIGHT SPECTROMETERS**
Design and characteristics of time of flight mass spectrometer to measure or analyze gases at low pressures and time of flight of single gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041
- TIME SERIES ANALYSIS**
Device for performing statistical time-series analysis of complex electrical signal waveforms
[NASA-CASE-MSC-12428-1] c10 N73-25240
- TIME SHARING**
Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507
- TIME SIGNALS**
Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Time synchronization system for synchronizing clocks at remote locations with master clock using mcm reflected coded signals
[NASA-CASE-NFO-10143] c10 N71-26326
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
System for generating timing and control signals
[NASA-CASE-NFO-13125-1] c33 N75-19519
- TIMING DEVICES**
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NFO-12107] c08 N71-27255
High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411
- TIRES**
Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Resilient wheel design with woven wire tire and abrasive treads for lunar surface vehicles
[NASA-CASE-NFS-13929] c15 N71-27091
- TISSUES (BIOLOGY)**
Servo-controlled intravital microscope system
[NASA-CASE-NFO-13214-1] c35 N75-25123
Improved tissue macerating instrument --- ophthalmic liquification pump
[NASA-CASE-LFW-12668-1] c52 N76-23837
Method and system for in vivo measurement of bone tissue using a tv level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c52 N77-27693
- TITANATES**
Vacuum preparation of zinc titanate pigment resistant to loss of reflective properties
[NASA-CASE-NFS-13532] c18 N72-17532
- TITANIUM**
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-NFS-07369] c15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c37 N77-11397
- TITANIUM ALLOYS**
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NFO-10271] c17 N71-16393
Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
- TITANIUM OXIDES**
Method of preparing zinc orthotitanate pigment
[NASA-CASE-NFS-23345-1] c27 N77-30237
- TOLERANCES (MECHANICS)**
Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951
- TOOLS**
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XNP-02107] c15 N71-10809
Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536
Tool for mounting and removing studs with adhesive coated head portion
[NASA-CASE-NFS-20299] c15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-NFS-21485-1] c37 N74-25968
- TOOTH DISEASES**
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-ERC-10338] c04 N72-33072
- TORCHES**
Computer controlled apparatus for maintaining welding torch angle and velocity during seam tracking
[NASA-CASE-XNP-03287] c15 N71-15607
Development of electric weeding torch with casing on one end to form inert gas shield
[NASA-CASE-XNP-02330] c15 N71-23798
- TOROIDS**
Flux gate magnetometer with toroidal gating coil and sclenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
- TORQUE**
Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-XGS-04227] c15 N71-21744
Coupling arrangement for isolating torque loads from axial, radial, and bending loads
[NASA-CASE-XLA-04897] c15 N72-22482
- TORQUE MOTORS**
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
- TORQUEMETERS**
Remote-reading torquemeter for use where high horsepower are transmitted at high rotational speeds
[NASA-CASE-XLE-00503] c14 N70-34818
Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-XGS-01013] c14 N71-23725
- TORSO**
Restraint torso for increased mobility and reduced physiological effects while wearing

- pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c54 N77-25784
- TOUCH**
Mechanically operated hand which can depress trigger using touch control device
[NASA-CASE-MFS-20413] c15 N72-21463
Measuring method for cutaneous perception using instrument with elongated tubular housing
[NASA-CASE-MSC-13609-1] c05 N72-25122
Prosthetic limb with tactile sensing device
[NASA-CASE-MFS-16570-1] c05 N73-32013
- TOWERS**
Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
- TOXICITY AND SAFETY HAZARD**
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-MAR-10634-1] c37 N74-18123
- TOXICOLOGY**
System for continuous monitoring of exhalations, weighing, and cage cleaning for animal exposed to controlled atmosphere for toxic study
[NASA-CASE-XAC-05333] c11 N71-22875
- TRACE CONTAMINANTS**
Describing crystal oscillator instrument for detecting condensable gas contaminants in vacuum apparatus
[NASA-CASE-NFO-10144] c14 N71-17701
Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c54 N77-24771
- TRACE ELEMENTS**
Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NFO-13063-1] c25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c25 N76-22323
- TRACKING (POSITION)**
Sensor consisting of photocells mounted on pyramidal base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NFO-11087] c23 N71-29125
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-BQN-10880-1] c32 N75-30385
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
Sun tracking solar energy collector
[NASA-CASE-NFO-13921-1] c44 N77-24590
- TRACKING FILTERS**
System for phase locking onto carrier frequency signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543
- TRACKING RADAR**
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Phase locked loop with sideband rejecting properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
- TRACKING STATIONS**
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XMS-03509] c14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NFO-13292-1] c32 N75-15854
- TRAFFIC CONTROL**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
- TRAILING-EDGE FLAPS**
Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N76-42016
- TRAINING SIMULATORS**
Low and zero gravity simulator for astronaut training
[NASA-CASE-MFS-10555] c11 N71-19494
Apparatus for training astronaut crews to perform on simulated lunar surface under conditions of lunar gravity
[NASA-CASE-XMS-04798] c11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
- TRAJECTORY ANALYSIS**
Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394
Planetary atmospheric investigation using split trajectory dual flyby mode
[NASA-CASE-XAC-08494] c30 N71-15990
- TRAJECTORY CONTROL**
Spacecraft trajectory correction propulsion system
[NASA-CASE-XNP-01104] c28 N70-39931
Development of technique for control of free flight rocket vehicles
[NASA-CASE-XLA-00937] c31 N71-17691
Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873
- TRANSDUCERS**
Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 N69-21541
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516
Transducer for measuring deflections from vibrating structures
[NASA-CASE-XLA-03135] c32 N71-16428
Describing device for surveying contour of surface using X-Y plotter and traveling transducer
[NASA-CASE-XLA-08646] c14 N71-17586
Rotary bead dropper and selector for testing micrometeorite transducers
[NASA-CASE-XGS-03304] c09 N71-22988
Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XLA-00781] c09 N71-22999
Transducer frame for use with extensometer to continuously monitor specimen sample
[NASA-CASE-XLA-10322] c15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c10 N72-20222
Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 N72-22200
Passive type, magnifying scratch gage, force transducer
[NASA-CASE-LAR-10496-1] c14 N72-22437
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
Acoustical transducer calibrating system including differential pressure activating device
[NASA-CASE-FRC-10060-1] c14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c33 N74-26732

- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
- Diode-gate bridge circuit means
[NASA-CASE-ABC-10364-3] c33 N75-19520
- Subminiature insertable force transducer ---
including a strain gage to measure forces in
muscles
[NASA-CASE-NFO-13423-1] c33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 N75-33369
- Miniature muscle displacement transducer
[NASA-CASE-NFO-13519-1] c33 N76-19338
- Method and apparatus for nondestructive testing
of pressure vessels
[NASA-CASE-NFO-12142-1] c38 N76-28563
- Myocardium wall thickness transducer and
measuring method
[NASA-CASE-NFO-13644-1] c52 N76-29895
- Magnetometer --- with an automatic scanning
transducer
[NASA-CASE-LAR-11617-2] c35 N77-17430
- Apparatus and method for determining the
position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
- TRANSDUCERS**
- Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
- High impedance alternating current sensing
transformer device between two balometers for
measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
- Magnetic current regulator for saturable core
transformer
[NASA-CASE-ERC-10075] c09 N71-24800
- Unsaturating magnetic core transformer design
with warning signal for electrical power
processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
- Development and characteristics of
electronically resettable fuse with saturable
core current sensing transformer having two
outside legs and center leg
[NASA-CASE-XGS-11177] c09 N71-27001
- Development and characteristics of voltage
regulator for connection in series with
alternating current source and load using
three leg, two-window transformer
[NASA-CASE-ERC-10113] c09 N71-27053
- Radial heat flux transformer for use in heating
and cooling processes
[NASA-CASE-NFO-10828] c33 N72-17948
- Current protection equipment for saturable core
transformers
[NASA-CASE-ERC-10075-2] c09 N72-22196
- Fail-safe multiple transformer circuit
configuration
[NASA-CASE-NFO-11078] c09 N72-25262
- Banded transformer cores
[NASA-CASE-NFO-11966-1] c33 N74-17928
- Solid-state current transformer
[NASA-CASE-MPS-22560-1] c33 N77-14335
- Circuit for automatic load sharing in parallel
converter modules
[NASA-CASE-NFO-14056-1] c33 N77-32402
- TRANSIENT HEATING**
- Thermocouple installation
[NASA-CASE-NFO-13540-1] c35 N77-14409
- TRANSIENT LOADS**
- Deployable cantilever support for deploying
solar cell arrays aboard spacecraft and
reducing transient loading
[NASA-CASE-NFO-10883] c31 N72-22874
- TRANSISTOR AMPLIFIERS**
- Overcurrent protecting circuit for push-pull
transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 N71-13531
- Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 N77-31407
- TRANSISTOR CIRCUITS**
- Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
- Design of transistorized ring counter circuit
with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
- EC transistor circuit to indicate each pulse of
pulse train and occurrence of nth pulse
[NASA-CASE-XNP-00906] c09 N70-41655
- Linear sawtooth voltage wave generator with
transistor timing circuit having capacitor and
zener diode feedback loops
[NASA-CASE-XMS-01315] c09 N70-41675
- Switching circuit with regeneratively connected
transistors eliminating power consumption when
not in use
[NASA-CASE-XNP-02654] c10 N70-42032
- High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
- Complementary regenerative transistorized switch
circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
- Inverter drive circuit for semiconductor switch
[NASA-CASE-LFW-10233] c10 N71-27126
- Transistorized circuit for producing multiple
slope voltage sweep
[NASA-CASE-XMS-03542] c09 N71-28926
- Circuitry for high input impedance video
processor with high noise immunity
[NASA-CASE-NFO-10199] c09 N72-17156
- Ultra-stable oscillator with complementary
transistors
[NASA-CASE-GSC-11513-1] c33 N74-20862
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333
- A complementary DMOS-VMOS integrated circuit
structure
[NASA-CASE-GSC-12190-1] c33 N77-29403
- TRANSISTORS**
- Power supply with overload protection for series
stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
- Solid state circuit for switching alternating
current input signal as function of direct
current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
- Broadband distribution amplifier with
complementary pair transistor output stages
[NASA-CASE-NFO-10003] c10 N71-26415
- Transistorized switching logic circuits with
tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236
- Inverted geometry transistor for use with
monolithic integrated circuit
[NASA-CASE-ABC-10330-1] c09 N73-32112
- Four phase logic systems --- including
integrated microcircuits
[NASA-CASE-MSC-14240-1] c33 N75-14957
- TRANSITION FLOW**
- Ablation article and surface for analyzing flow
transition on ablative surface
[NASA-CASE-LAR-10439-1] c33 N73-27796
- TRANSITION TEMPERATURE**
- A method of preparing aromatic polyimides having
uniquely low softening temperatures
[NASA-CASE-LAR-11828-1] c23 N75-29181
- TRANSLATIONAL MOTION**
- Centrifuge mounted motion simulator with
elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
- Development and characteristics of translating
horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
- Semilinear bearing comprising two rows of roller
bearings separated by spherical bearings and
permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982
- Positioning mechanism for converting translatory
motion into rotary motion
[NASA-CASE-NFO-10679] c15 N72-21462
- TRANSMISSION EFFICIENCY**
- Microwave power transmission system wherein
level of transmitted power is controlled by
reflections from receiver
[NASA-CASE-MFS-21470-1] c44 N74-19870
- Linear phase demodulator including a phase
locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334
- TRANSMISSION LINES**
- Portable equipment for validating C band launch
pad antennas and transmission lines used for
spacecraft checkout
[NASA-CASE-XMS-10543] c07 N71-26292
- Collapsible antenna boom and coaxial
transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
- Phase modulator with tuned variable length
electrical lines including coupling and
varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429

- Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
[NASA-CASE-HFS-13687-2] c09 N72-22198
- Development of phase control coupling for use with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
- Phase protection system for ac power lines
[NASA-CASE-HSC-17832-1] c33 N74-14956
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c33 N74-17927
- TRANSMITTANCE**
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c23 N73-32538
- TRANSMITTER RECEIVERS**
Low weight, integrated thermoelectric generator/antenna combination for spacecraft
[NASA-CASE-XFR-09521] c09 N72-12136
- Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-EEC-10324] c07 N72-25173
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c32 N74-12912
- Digital communication system
[NASA-CASE-HSC-13912-1] c32 N74-30524
- Redundant RF system for space applications
[NASA-CASE-NPO-13955-1] c32 N77-28358
- TRANSMITTERS**
Temperature telemetric transmitter with frequency determining tank circuit for short range transmission
[NASA-CASE-NFO-10649] c07 N71-24840
- Multicarrier communications system for transmitting modulated signals from single transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
- Miniature multichannel biotelemetry system
[NASA-CASE-NFO-13065-1] c52 N74-26625
- Digital transmitter for data bus communications system
[NASA-CASE-HSC-14558-1] c32 N75-21486
- TRANSONIC SPEED**
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497
- TRANSONIC WIND TUNNELS**
Wind tunnel test section for simulating high Reynolds number over transonic speed range
[NASA-CASE-HFS-20509] c11 N72-17183
- TRANSPARENCY**
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-IHS-04935] c05 N71-11190
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932
- TRANSPARATION**
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c20 N76-14191
- TRANSPONDERS**
Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-IHS-05454-1] c07 N71-12391
- Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118
- Loop transponder for regenerating code of nu-type ranging system
[NASA-CASE-NPO-11707] c07 N73-25161
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c32 N74-12912
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c32 N75-15854
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c32 N77-31350
- TRANSPORTATION**
Supporting and protecting frame structure and plug for empty thrust chamber assembly, handling, and shipping
[NASA-CASE-IMP-00580] c11 N70-35383
- TRAPS**
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c36 N75-19652
- TRAVELING WAVE AMPLIFIERS**
Sorrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
[NASA-CASE-XGS-01022] c07 N71-16088
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
- TRAVELING WAVE MASERS**
Design of folded traveling wave maser structure
[NASA-CASE-IMP-05219] c16 N71-15550
- Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c36 N76-31514
- TRAVELING WAVE TUBES**
Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers
[NASA-CASE-XGS-10518] c16 N71-28554
- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c33 N77-17360
- TRAVELING WAVES**
Traveling wave maser for operation in 7 to 20 GHz frequency range
[NASA-CASE-NPO-11437] c16 N72-28521
- TRAYS**
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N77-14157
- TREADMILLS**
Tread drum for animals
[NASA-CASE-ARC-10917-1] c37 N76-20485
- TRIGGER CIRCUITS**
Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
- Triggering system for electric arc driven impulse wind tunnel
[NASA-CASE-IMP-00411] c11 N70-36913
- Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-IHS-06497] c14 N71-26244
- One shot multivibrator circuit for producing long duration output pulses
[NASA-CASE-ARC-10137-1] c09 N71-28468
- Voltage amplitude-responsive trigger circuit with silicon controlled rectifier
[NASA-CASE-GSC-10221-1] c09 N72-23171
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c33 N74-20859
- TRIGONOMETRY**
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-IMP-00684] c21 N71-21688
- TRIMERS**
New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NPO-10714] c06 N69-31244
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c27 N74-34579
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c23 N77-32244
- TRIODES**
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898
- TRITIUM**
Method for determining state of charge of alkali batteries by using tritium as tracer
[NASA-CASE-IMP-01464] c03 N71-10728
- TRUCKS**
Fifth wheel
[NASA-CASE-FRC-10081-1] c37 N77-14477
- TRUSSES**
Low mass truss structure with elongated

- thin-walled tubular segments
[NASA-CASE-LAR-10546-1] c11 N72-25287
- Lightweight structural columns --- for truss
structures
[NASA-CASE-LAR-12095-1] c39 N77-27432
- TUBE ANODES**
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NFO-13732-1] c44 N77-19581
- TUBE CATHODES**
Dual membrane, hollow fiber fuel cell
[NASA-CASE-NFO-13732-1] c44 N77-19581
- TUBE HEAT EXCHANGERS**
High resistance cross flow heat exchangers for
electrothermal rocket engines
[NASA-CASE-XLE-01783] c28 N70-34175
- Gas chromatographic method for determining water
in nitrogen tetroxide rocket propellant
[NASA-CASE-NFO-10234] c06 N72-17094
- Liquid cooled brassiere and method of diagnosing
malignant tumors therewith
[NASA-CASE-ARC-11007-1] c52 N77-14736
- TUBES**
Forming tubes from long thin flat metal strips
[NASA-CASE-IGS-04175] c15 N71-18579
- Hermetic sealing device for ends of tubular
bodies during materials testing operations
[NASA-CASE-NFO-10431] c15 N71-29132
- TUMBLING MOTION**
Tumbling motion system for object demagnetization
[NASA-CASE-IGS-02437] c15 N69-21472
- TUMORS**
Liquid cooled brassiere and method of diagnosing
malignant tumors therewith
[NASA-CASE-ARC-11007-1] c52 N77-14736
- TUNGSTEN**
Bonding method for improving contact between
lead telluride thermoelectric elements and
tungsten electrodes
[NASA-CASE-IGS-04554] c15 N69-39786
- Method for producing porous tungsten plates for
ionizing cesium compounds for propulsion of
ion engines
[NASA-CASE-XLE-00455] c28 N70-38197
- Small plasma probe using tungsten wire collector
in tubular shield
[NASA-CASE-XLE-02578] c25 N71-20747
- Production method for manufacturing porous
tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
- Vapor deposition method for forming metallized
tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c09 N72-25259
- Nuclear thermionic converter ---
tungsten-thorium oxide rods
[NASA-CASE-NFO-13121-1] c73 N77-18891
- TUNGSTEN ALLOYS**
Evaporating crucible of tantalum-tungsten foil,
nickel alumina bonding agent, and ceramic
coating
[NASA-CASE-XLA-03105] c15 N69-27483
- Cobalt-tungsten alloys with superior strength at
elevated temperatures
[NASA-CASE-LFW-10436-1] c17 N73-32415
- Directionally solidified eutectic gamma plus
beta nickel-base superalloys
[NASA-CASE-LFW-12906-1] c26 N77-32279
- TUNING**
Active tuned circuits for microelectronic
construction
[NASA-CASE-GSC-11340-1] c10 N72-33230
- Microwave generator using Gunn effect for
magnetic tuning
[NASA-CASE-NFO-12106] c09 N73-15235
- TUNNEL DIODES**
Low power drain transistor feedback circuit
[NASA-CASE-IGS-04999] c09 N69-24317
- TUNNELS**
Deployable flexible tunnel
[NASA-CASE-NFS-22636-1] c37 N76-22540
- TURBINE BLADES**
Transpiration cooled turbine blade made from
metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-31226
- Modification and improvement of turbine blades
for maximum cooling efficiency
[NASA-CASE-XLE-00092] c15 N70-33264
- Preparation of nickel alloys for jet turbine
blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
- External device for liquid spray cooling of gas
turbine blades
[NASA-CASE-XLE-00037] c28 N70-33372
- Apparatus for liquid spray cooling of turbine
blades
[NASA-CASE-XLE-00027] c33 N71-29152
- Process for welding compressor and turbine
blades to rotors and discs of jet engines
[NASA-CASE-LFW-10533-1] c15 N73-28515
- Thermal barrier coating system
[NASA-CASE-LFW-12554-1] c24 N76-23359
- Apparatus and method for reducing thermal stress
in a turbine rotor
[NASA-CASE-LFW-12232-1] c07 N77-18160
- Leading edge protection for composite blades
[NASA-CASE-LFW-12550-1] c24 N77-19170
- TURBINE ENGINES**
High speed, self-acting shaft seal --- for use
in turbine engines
[NASA-CASE-LFW-11274-1] c37 N75-21631
- Gas path seal --- for use with turbine engines
[NASA-CASE-LFW-12131-1] c37 N77-24498
- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118
- TURBINE PUMPS**
Pulsed energy power system for application of
combustible gases to turbine controlling ac
voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057
- Portable cryogenic cooling system design
including turbine pump, cooling chamber, and
atomizer
[NASA-CASE-NFO-10467] c23 N71-26654
- Supersonic-combustion rocket
[NASA-CASE-LFW-11058-1] c20 N74-13502
- TURBINE WHEELS**
Locking device for retaining turbine rotor
blades on turbine wheel
[NASA-CASE-XNP-00816] c28 N71-28928
- Apparatus for welding blades to rotors
[NASA-CASE-LFW-10533-2] c37 N74-11300
- Blade retainer assembly
[NASA-CASE-LFW-12608-1] c07 N77-27116
- TURBINES**
Liquid-vapor interface seal design for turbine
rotating shafts including helical and
molecular pumps and liquid cooling of mercury
vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
- TURBOCOMPRESSORS**
Multistage multiple reentry axial flow reaction
turbine with reverse flow reentry ducting
[NASA-CASE-XLE-00170] c15 N70-36412
- TURBOFAN ENGINES**
Supersonic fan blading --- noise reduction in
turbofan engines
[NASA-CASE-LFW-11402-1] c07 N74-28226
- Noise suppressor --- for turbofan engine by
incorporating annular acoustically porous
elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
- TURBOFANS**
Dual output variable pitch turbofan actuation
system
[NASA-CASE-LFW-12419-1] c07 N77-14025
- Reverse pitch fan with divided splitter
[NASA-CASE-LFW-12760-1] c07 N77-17059
- TURBOJET ENGINES**
Telescoping-spike supersonic nozzle for turbojet
or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
- Design and development of gas turbine combustion
unit with nozzle guide vanes for introducing
diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
- Reduction of nitric oxide emissions from a
combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260
- TURBOMACHINE BLADES**
Platform for a swing root turbomachinery blade
[NASA-CASE-LFW-12312-1] c07 N77-32148
- TURBOMACHINERY**
Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
- TURBOSHAPTS**
Remote-reading torque meter for use where high
horsepowers are transmitted at high rotative

- speeds
[NASA-CASE-XLE-00503] c14 N70-34818
High speed, self-acting shaft seal --- for use
in turbine engines
[NASA-CASE-LER-11274-1] c37 N75-21631
- TURBULENCE METERS**
Turbulence intensity indicator
[NASA-CASE-LAR-11833-1] c06 N76-31229
- TURBULENT FLOW**
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c34 N76-18364
System for measuring Reynolds in a turbulently
flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c34 N76-27517
System for measuring three fluctuating velocity
components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c34 N77-27345
- TURBULENT WAKES**
Vortex attenuation method --- for multi-engine
aircraft
[NASA-CASE-LAR-12034-1] c02 N77-22045
- TURNSTILE ANTENNAS**
Flexible turnstile antenna system for reducing
nutation in spin-oriented satellites
[NASA-CASE-XNF-00442] c31 N71-10747
Broadband modified turnstile antenna for use in
space tracking and communications
[NASA-CASE-MSC-12209] c09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c33 N76-14372
- TURRET**
Indexing mechanism for cathode array
substitution in electron beam tube
[NASA-CASE-NFO-10625] c09 N71-26182
- TWO BODY PROBLEM**
Instrument for measuring potentials on two
dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421
- TWO DIMENSIONAL BODIES**
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202
Two-dimensional radiant energy array computers
and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751
- TWO PHASE FLOW**
Solenoid two-step valve for bipropellant flow
rate control to rocket engine
[NASA-CASE-XMS-04890-1] c15 N70-22192
Two phase fluid pressurization system for
propellant tank
[NASA-CASE-MSC-12390] c27 N71-29155
Two-phase flow system with discrete, impinging
two-phase jets
[NASA-CASE-NFO-11556] c12 N72-25292
- TYPEWRITERS**
Guide for a typewriter
[NASA-CASE-NFS-15218-1] c37 N77-19457
- U**
- U BENDS**
Elbow forming in jacketed pipes while
maintaining separation between core shape and
jacket pipes
[NASA-CASE-XNP-10475] c15 N71-24679
U shaped heated tube for distillation and
purification of liquid metals
[NASA-CASE-XNP-08124-2] c06 N73-13129
- ULLAGE**
Radiation source and detection system for
measuring amount of liquid inside tanks
independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348
- ULTRAHIGH FREQUENCIES**
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c33 N76-14372
Swept group delay measurement
[NASA-CASE-NFO-13909-1] c33 N77-17358
- ULTRAHIGH VACUUM**
Solid lubricant applied to porous roller
bearings prior to use in ultrahigh vacuum
[NASA-CASE-XLE-09527] c15 N71-17688
Calibration of vacuum gauges for measuring total
and partial pressures in ultrahigh vacuum region
[NASA-CASE-XGS-07752] c14 N73-30390
Ultrahigh vacuum gauge with two collector
electrodes
[NASA-CASE-LAR-02743] c14 N73-32324
In situ transfer standard for ultrahigh vacuum
gage calibration
[NASA-CASE-LAR-10862-1] c35 N74-15092
- ULTRASONIC AGITATION**
Development of ultrasonic radiation equipment
for removing material from host surface and
vacuum apparatus for recovery of material
[NASA-CASE-NFO-11213] c15 N73-20514
- ULTRASONIC RADIATION**
Ultrasonic biomedical measuring and recording
apparatus --- for recording motion of internal
organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
EKG and ultrasonoscope display
[NASA-CASE-ARC-10994-2] c52 N77-15619
- ULTRASONIC TESTS**
Ultrasonic scanner for radial and flat panels
[NASA-CASE-NFS-20335-1] c35 N74-10415
Ultrasonic scanning system for in-place
inspection of brazed tube joints
[NASA-CASE-NFS-20767-1] c38 N74-15130
Method and apparatus for nondestructive testing
--- using high frequency arc discharges
[NASA-CASE-NFS-21233-1] c38 N74-15395
A CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c32 N77-15236
A miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N77-15621
- ULTRASONIC WAVE TRANSDUCERS**
Development of ultrasonic radiation equipment
for removing material from host surface and
vacuum apparatus for recovery of material
[NASA-CASE-NFO-11213] c15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-NFS-20994-1] c35 N75-12271
Reference apparatus for medical ultrasonic
transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760
Ultrasonic calibration device --- for producing
changes in acoustic attenuation and phase
velocity
[NASA-CASE-LAR-11435-1] c35 N76-15432
- ULTRASONIC WELDING**
Ultrasonically bonded valve assembly
[NASA-CASE-NFO-13360-1] c37 N75-25185
- ULTRASONICS**
Ultrasonic wrench for applying vibratory energy
to mechanical fasteners
[NASA-CASE-NFS-20586] c15 N71-17686
- ULTRAVIOLET FILTERS**
Ultraviolet filter of thorium fluoride and
cryolite on quartz base
[NASA-CASE-XNF-02340] c23 N69-24332
Development of ultraviolet resonance lamp with
improved transmission of radiation
[NASA-CASE-ARC-10030] c09 N71-12521
- ULTRAVIOLET RADIATION**
Ultraviolet radiation resistant alkali-metal
silicate coatings for temperature control of
spacecraft
[NASA-CASE-IGS-04119] c18 N69-39979
Development of ultraviolet resonance lamp with
improved transmission of radiation
[NASA-CASE-ARC-10030] c09 N71-12521
Gas leak detection in evacuated systems using
ultraviolet radiation probe
[NASA-CASE-EHC-10034] c15 N71-24896
Phototropic composition of matter with
sensitivity to ultraviolet light and usable
for producing positive photographic images
[NASA-CASE-IGS-03736] c14 N72-22443
Transmitting and reflecting diffuser
[NASA-CASE-LAR-10385-3] c23 N73-32538
Transmitting and reflecting diffuser --- for
ultraviolet light
[NASA-CASE-LAR-10385-2] c70 N74-13436
Ultraviolet and thermally stable polymer
compositions
[NASA-CASE-ARC-10592-1] c27 N74-21156
Light shield and cooling apparatus --- high
intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c34 N74-23066
Plane detector operable in presence of proton
radiation
[NASA-CASE-NFS-21577-1] c19 N74-29410

- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NFO-13346-1] c36 N76-29575
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c27 N76-32315
- ULTRAVIOLET REFLECTION**
Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-IGS-04799] c18 N71-24183
- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c24 N76-24363
- ULTRAVIOLET SPECTRA**
Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-ECN-10756-1] c14 N72-25428
- ULTRAVIOLET SPECTROMETERS**
Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-XGS-01036] c14 N70-40003
- Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
- UMBILICAL CONNECTORS**
Umbilical separator for rockets
[NASA-CASE-XNP-00425] c11 N70-38202
- Remotely actuated quick disconnect mechanism for umbilical cables
[NASA-CASE-XLA-00711] c03 N71-12258
- Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259
- Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XNP-05344] c31 N71-16345
- Breakaway multiwire electrical cable connector with particular application for umbilical type cables
[NASA-CASE-NFO-11140] c15 N72-17455
- Gas operated quick disconnect coupling for umbilical connectors
[NASA-CASE-NFO-11202] c15 N72-25450
- Deployable flexible tunnel
[NASA-CASE-NFS-22636-1] c37 N76-22540
- UMBILICAL TOWERS**
Emergency escape cabin system for launch towers
[NASA-CASE-IRS-02342] c05 N71-11199
- UNDERWATER ENGINEERING**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c35 N74-16135
- UNDERWATER TESTS**
Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-NFS-20332] c05 N72-20097
- Underwater space suit pressure control regulator
[NASA-CASE-NFS-20332-2] c05 N73-25125
- UNIFORM FLOW**
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[NASA-CASE-ARC-10710-1] c09 N75-12969
- UNLOADING**
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-05768] c09 N71-12516
- UNMANNED SPACECRAFT**
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[NASA-CASE-XNP-09770-3] c11 N71-27036
- UPPER ATMOSPHERE**
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[NASA-CASE-XLA-03273] c14 N71-18699
- Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-HQN-10037-1] c14 N73-27376
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- URANIUM 235**
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[NASA-CASE-NFO-13550-1] c36 N77-26477
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A reverse osmosis membrane of high urea rejection properties
[NASA-CASE-ARC-10980-1] c27 N77-18265
- Aldehyde-containing urea-absorbing polysaccharides
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- URINALYSIS**
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- Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052
- Automatic device for assaying urine on bacterial adenosine triphosphate content
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- URINATION**
Open type urine receptacle with tubular housing
[NASA-CASE-HSC-12324-1] c05 N72-22093
- URINE**
Determination of antimicrobial susceptibilities of infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N77-26797
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- V GROOVES**
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[NASA-CASE-NFS-20730-1] c39 N74-13131
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[NASA-CASE-LFW-11573-1] c26 N77-28265
- VACUUM**
Hole mobility of deposited semiconductor films in vacuum utilizing thermal gradient
[NASA-CASE-IRS-04614] c15 N69-21460
- Operating properties of superconducting magnet in vacuum environment
[NASA-CASE-INP-06503] c23 N71-29049
- VACUUM APPARATUS**
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[NASA-CASE-IAC-00472] c15 N70-40180
- Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-INP-03290] c15 N71-23256
- Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-INP-09699] c06 N71-24607
- Oil trap for preventing diffusion pump backstreaming into evacuated system
[NASA-CASE-GSC-10518-1] c15 N72-22489
- Inductance device with vacuum insulation and materials of low gas entrapping capability
[NASA-CASE-LFW-10330-1] c09 N72-27226
- Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-IIE-06461-2] c17 N72-28535
- Portable vacuum probe surface sampler for sampling large surface areas with relatively light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395
- Servo valve
[NASA-CASE-LAR-11643-1] c37 N75-13268
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c35 N75-19612
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c37 N76-21554
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[NASA-CASE-XLE-00168] c11 N70-33278
- Portable electron beam welding chamber
[NASA-CASE-LFW-11531] c15 N71-14932
- Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
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Ionization control system design for monitoring separately located ion gage pressures on vacuum chambers
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[NASA-CASE-XER-11203] c14 N71-28994
Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
Vacuum chamber with scale model of rocket engine base area of space vehicle
[NASA-CASE-MFS-20620] c11 N72-27262
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[NASA-CASE-LAR-10061-1] c15 N72-31483
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[NASA-CASE-GSC-10903-1] c14 N73-12444
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[NASA-CASE-MFS-21362] c11 N73-20267

VACUUM DEPOSITION

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[NASA-CASE-ERC-10120] c26 N69-33482
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[NASA-CASE-XMP-06065] c15 N71-20395
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[NASA-CASE-XLA-05087] c14 N73-30391
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[NASA-CASE-LAR-10862-1] c35 N74-15092

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[NASA-CASE-XLA-07424] c14 N71-18482
Describing sorption vacuum trap having housing with group of reentrant wall portions projecting into internal gas-pervious container filled with gas and vapor sorbent material
[NASA-CASE-XER-09519] c14 N71-18483
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[NASA-CASE-XLE-00397] c15 N70-36492
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[NASA-CASE-MSC-11010] c15 N71-19485
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[NASA-CASE-XMS-05890] c09 N71-23191
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[NASA-CASE-NFO-10606] c15 N72-25451
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[NASA-CASE-XMP-05535] c14 N71-23040
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Device for producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-02057] c26 N70-40015
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[NASA-CASE-XMP-01961] c26 N71-29156
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[NASA-CASE-BQN-10462] c25 N75-29192

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[NASA-CASE-XLE-01182] c27 N71-15635
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor

[NASA-CASE-XNP-01960] c09 N71-23027
Mixed liquid and vapor phase analyzer design
with thermocouples for relative heat transfer
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[NASA-CASE-NFO-10691] c14 N71-26199
Electronic recording system for spatial mass
distribution of liquid rocket propellant
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[NASA-CASE-NFO-10185] c10 N71-26339
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[NASA-CASE-MSC-14773-1] c31 N75-32262
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porous plug
[NASA-CASE-XLE-00288] c15 N70-34247
Vapor-liquid separator design with vapor driven
pump for separated liquid pumping for
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[NASA-CASE-XNP-04042] c15 N71-23023
VAPOR TRAPS
Describing sorption vacuum trap having housing
with group of reentrant wall portions
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container filled with gas and vapor sorbent
material
[NASA-CASE-XER-09519] c14 N71-18483
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Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104
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dispensing reagent quantities of volatile
chemicals for small batch reactions
[NASA-CASE-NFO-10070] c15 N71-27372
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[NASA-CASE-NFO-10633] c03 N72-28025
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electrical lines including coupling and
varactor diode circuits
[NASA-CASE-MSC-13201-1] c07 N71-28429
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frequencies with high power and high
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[NASA-CASE-XNP-04958-1] c10 N71-26414
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[NASA-CASE-GSC-11617-1] c33 N74-32660
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Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118
VARIABLE GEOMETRY STRUCTURES
Aerospace configuration with low and high aspect
ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
Variable geometry wind tunnel for testing
aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246
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Dual output variable pitch turbofan actuation
system
[NASA-CASE-LEW-12419-1] c07 N77-14025
VARIABLE SWEEP WINGS
Variable sweep wing configuration for supersonic
aircraft
[NASA-CASE-XLA-00230] c02 N70-33255
Variable aspect ratio and variable sweep delta
wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
Supersonic aircraft configuration providing for
variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178
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for varying aspect ratio
[NASA-CASE-XLA-00350] c02 N70-38011
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sweep wing control system for supersonic
aircraft
[NASA-CASE-XLA-03659] c02 N71-11041
Design of dual fuselage aircraft with pivoting
wing and horizontal stabilizer to permit
yawing of wing in flight for high speed
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[NASA-CASE-ARC-10470-1] c02 N73-26005

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Variable thrust ion engine using thermal
decomposition of solid cesium compound to
produce propulsive vapor
[NASA-CASE-XNP-00923] c28 N70-36802
Continuous variation of propellant flow and
thrust by application of liquid foam flow
theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367

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Gearing system for eliminating backlash and
filtering input torque fluctuations from high
inertia load
[NASA-CASE-XGS-04227] c15 N71-21744

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Development of two force component measuring
device
[NASA-CASE-XAC-04886-1] c14 N71-20439

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vectorcardiologic type electrodes to human
torsos for data recording during physical
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[NASA-CASE-XPR-10856] c05 N71-11189

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[NASA-CASE-ARC-10722-1] c51 N75-25503
Remote sensing of vegetation and soil using
microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N76-23671

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Resilient vehicle wheel for lunar surface travel
[NASA-CASE-MPS-20400] c31 N71-18611
Resilient wheel design with woven wire tire and
abrasive treads for lunar surface vehicles
[NASA-CASE-MPS-13929] c15 N71-27091
Omnidirectional wheel
[NASA-CASE-MPS-21309-1] c37 N74-18125
Two speed drive system --- mechanical device for
changing speed on rotating vehicle wheel
[NASA-CASE-MPS-20645-1] c37 N74-23070
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[NASA-CASE-FRC-10081-1] c37 N77-14477

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Velocity limiting safety system for motor driven
research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895

VELOCITY MEASUREMENT

Particle detector for measuring micrometeoroid
velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332
Superconductive accelerometer employing variable
force principle to determine acceleration of
bodies
[NASA-CASE-XNP-01099] c14 N71-15969
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by interferometric measurement of travel of
falling body
[NASA-CASE-XNP-05844] c14 N71-17587
Describing laser Doppler velocimeter for
measuring mean velocity and turbulence of
fluid flow
[NASA-CASE-MPS-20386] c21 N71-19212
Momentum-velocity analyzer for measuring minute
space particles
[NASA-CASE-XNS-04201] c14 N71-22990
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accelerometer based on color changes in liquid
crystalline material subjected to shear stresses
[NASA-CASE-FRC-10292] c14 N72-25410
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of flow velocity in flow field
[NASA-CASE-LAR-10855-1] c14 N73-13415
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velocities of radiating particles
[NASA-CASE-RQN-10740-1] c72 N74-19310
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[NASA-CASE-MPS-23363-1] c35 N76-33469
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[NASA-CASE-MPS-23175-1] c35 N77-30436

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discrimination of high velocity molecular
particles
[NASA-CASE-XLE-01533] c11 N71-10777
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electromechanical drive mechanism of scanning
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- Heat sterilizable patient ventilator
[NASA-CASE-WFO-13313-1] c54 N75-27761
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- Fuel tank pressure-relief device for venting
cryogenic liquid vapors through tubes with
porous plug
[NASA-CASE-XLE-00288] c15 N70-34247
- Venting device for liquid propellant storage
tank using magnetic field to separate liquid
and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
- Valve seat with resilient support ring for
venting valves subjected to high pressure
sealing loads
[NASA-CASE-XKS-02582] c15 N71-21234
- Venting device for pressurized space suit helmet
to eliminate vomit expelled by crewmen
[NASA-CASE-XMS-09652-1] c05 N71-26333
- Solid propellant rocket engine with venting
system to control effective nozzle throat area
[NASA-CASE-XNP-03282] c28 N72-20758
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- Space simulator with uniform test region
radiation distribution, adapted to simulate
Venus solar radiations
[NASA-CASE-XNF-00459] c11 N70-38675
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- Aircraft indicator for pilot control of takeoff
roll, climbout path and verticle flight path
in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
- VERTICAL LANDING**
- Vertically descending flight vehicle landing
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[NASA-CASE-XNP-01174] c02 N70-41589
- VERTICAL TAKEOFF AIRCRAFT**
- Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
- Development of attitude control system for
vertical takeoff aircraft using reaction
nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
- VERY HIGH FREQUENCIES**
- VHF/UHF parasitic probe antenna for spacecraft
communication
[NASA-CASE-XKS-09340] c07 N71-24614
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- Lightweight life preserver without fastening
devices
[NASA-CASE-XMS-00864] c05 N70-36493
- VIBRATION**
- Three stage motion restraining mechanism for
restraining and damping three dimensional
vibrational movement of gimballed package
during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
- Vibration control of flexible bodies in steady
accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
- VIBRATION DAMPING**
- Mercury filled pendulum damper for controlling
bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
- Digital filter for reducing jitter in digital
control systems
[NASA-CASE-WFO-11088] c08 N71-29034
- Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154
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- Electromagnetic energy detection by thermal
sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
- Development of ultrasonic radiation equipment
for removing material from host surface and
vacuum apparatus for recovery of material
[NASA-CASE-XEC-11213] c15 N73-20514
- Development of optical system for detecting
defective components in rotating machinery
with emphasis on bearing assemblies
[NASA-CASE-XSC-10752-1] c15 N73-27407
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- Shock and vibration damping device using
temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486
- Miniature vibration isolator utilizing elastic
tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
- Vibration damping system operating in low vacuum
environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
- Hermetically sealed vibration damper design for
use in gimbal assembly of spacecraft inertial
guidance system
[NASA-CASE-XSC-10959] c15 N71-26243
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[NASA-CASE-LAR-10083-1] c15 N71-27006
- Vibration isolation system, using coaxial
helical compression springs
[NASA-CASE-WFO-11012] c15 N72-11391
- Thrust-isolating mounting --- characteristics of
support for loads mounted in spacecraft
[NASA-CASE-XFS-21680-1] c18 N74-27397
- Shock absorbing mount for electrical components
[NASA-CASE-WFO-13253-1] c37 N75-18573
- Thermal insulation attaching means --- adhesive
bonding of felt vibration isolators under
ceramic tiles
[NASA-CASE-XSC-12619-2] c16 N77-31237
- VIBRATION MEASUREMENT**
- Development of system for measuring damping
characteristics of structure or system
subjected to random forces or influences
[NASA-CASE-XAC-10154-1] c14 N72-22440
- Method and apparatus for vibration analysis
utilizing the Mossbauer effect
[NASA-CASE-XNP-05882] c35 N75-27329
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- Fiber optic transducers for monitoring and
analysis of vibration in aerospace vehicles
and onboard equipment
[NASA-CASE-XNP-02433] c14 N71-10616
- VIBRATION MODE**
- Function generators for producing complex
vibration mode patterns used to identify
vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253
- VIBRATION SIMULATORS**
- Equipment for vibration testing of assemblies,
components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
- VIBRATION TESTS**
- Electronic detection system for peak
acceleration limits in vibrational testing of
spacecraft components
[NASA-CASE-WFO-10556] c14 N71-27185
- Fixture for supporting articles during vibration
tests comprising integral annular unit
[NASA-CASE-XFS-20523] c14 N72-27412
- Equipment for vibration testing of assemblies,
components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
- Multiaxes vibration device for making vibration
tests along orthogonal axes of test specimen
[NASA-CASE-XFS-20242] c14 N73-19421
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- Tuned damped vibration absorber for mass
vibrating in more than one degree of freedom
for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
- VIDEO COMMUNICATION**
- Circuitry for generating sync signals in FM
communication systems including video
information
[NASA-CASE-XNP-10830] c07 N71-11281
- Monitoring circuit design for sampling circuit
control and reduction of time-bandwidth in
video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
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apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
- Sampling video compression system
[NASA-CASE-XAC-10984-1] c32 N77-24328
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- TV camera output signal control system for
digital spacecraft communication
[NASA-CASE-XNP-01472] c14 N70-41807
- Transient video signal tape recorder with
expanded playback
[NASA-CASE-XAC-10003-1] c09 N71-25866
- Restoration and improvement of demodulated
facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081

- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
- VIDEO EQUIPMENT**
Video signal processing system for sampling video brightness levels
[NASA-CASE-NFO-10140] c07 N71-24742
Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
Teletypewriter video communication system and apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
Video signal enhancement of signal component representing brightness of scene element in low contrast
[NASA-CASE-NFO-10343] c07 N71-27341
Circuitry for high input impedance video processor with high noise immunity
[NASA-CASE-NFO-10199] c09 N72-17156
Electronic video editor for switching video input signals to common output channel
[NASA-CASE-KSC-10003] c10 N73-13235
Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-NFO-10166-1] c07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NFO-10166-2] c35 N76-16391
Stack plane visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
- VIDICONS**
Operation of vidicon tube for scanning spatial charge density pattern
[NASA-CASE-XNP-06028] c09 N71-23189
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
- VINYL POLYMERS**
Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NFO-10373] c03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c27 N76-28425
- VINYLIDENE**
Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-XNP-03250] c06 N71-23500
- VIRUSES**
Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N77-24755
- VISCOELASTICITY**
Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161
Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NFO-11387] c14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NFO-13253-1] c37 N75-18573
- VISCOMETERS**
Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-09462] c14 N71-17584
Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NFO-11387] c14 N73-14429
- VISCOSITY**
Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-XIE-01512] c12 N70-40124
- VISCOUS DAMPING**
Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486
Design and operation of viscous pendulum damper
[NASA-CASE-XIA-02079] c12 N71-16894
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
- VISIBILITY**
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-IFR-04147] c11 N71-10748
- VISORS**
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c23 N75-14834
- VISUAL ACUITY**
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
- VISUAL CONTROL**
Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
- VISUAL FIELDS**
Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
Visual examination apparatus
[NASA-CASE-RE-ARC-10329-2] c52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c74 N77-20882
- VISUAL PERCEPTION**
High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074
- VISUAL STIMULI**
Reaction tester for testing reaction to light stimuli
[NASA-CASE-MSC-13604-1] c05 N73-13114
- VOICE COMMUNICATION**
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
Earth satellite relay station for frequency multiplexed voice transmission
[NASA-CASE-GSC-10118-1] c07 N71-24621
Voice operated receiving and transmitting system for use in protective suits
[NASA-CASE-KSC-10164] c07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MPS-22729-1] c32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NFO-13465-1] c32 N76-31372
- VOICE DATA PROCESSING**
Digital communication system
[NASA-CASE-MSC-13912-1] c32 N74-30524
- VOLATILITY**
Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
- VOLT-AMPERE CHARACTERISTICS**
Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
[NASA-CASE-XMS-01554] c10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NFO-13512-1] c33 N77-10428
Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394
- VOLTAGE AMPLIFIERS**
Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516
RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
Wide range analog to digital converter with variable gain amplifier
[NASA-CASE-NFO-11018] c08 N72-21200
- VOLTAGE CONVERTERS (DC TO DC)**
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NFO-13512-1] c33 N77-10428

Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333

A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385

Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NFO-13812-1] c33 N77-30365

VOLTAGE GENERATORS

Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057

Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342

Transistorized circuit for producing multiple slope voltage sweep
[NASA-CASE-XMS-03542] c09 N71-28926

Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252

VOLTAGE REGULATORS

Regulated dc to dc converter
[NASA-CASE-IGS-03429] c03 N69-21330

Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-IMP-02713] c10 N69-39888

Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986

Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987

Design, development, and operating principles of power supply with starting circuit which is independent of voltage regulator
[NASA-CASE-XMS-01991] c09 N71-21449

High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583

Power supply with overload protection for series stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543

Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882

Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASE-GSC-1C735-1] c10 N71-26085

Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244

Dissipative voltage regulator system for minimizing heat dissipation
[NASA-CASE-GSC-10891-1] c10 N71-26626

Power point tracker for maintaining optimal output voltage of power source
[NASA-CASE-GSC-10376-1] c14 N71-27407

Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
[NASA-CASE-NFC-11031] c07 N71-33606

Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NFO-11253] c09 N72-17157

Switching type voltage regulator with relatively simple circuit arrangement
[NASA-CASE-LEW-11005-1] c09 N72-21243

Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252

Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-16792-1] c33 N74-11049

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c33 N74-17929

Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MPS-21671-1] c33 N74-22885

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521

A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter
[NASA-CASE-LEW-12791-1] c33 N77-24385

VOLUNTARIES

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521

VOLUMETRIC ANALYSIS

Volumetric direct nuclear pumped laser
[NASA-CASE-LAB-12183-1] c36 N77-21424

VOMITING

Venting device for pressurized space suit helmet to eliminate vomit expelled by crewmen
[NASA-CASE-XMS-09652-1] c05 N71-26333

VORTEX BREAKDOWN

Wingtip vortex dissipator for aircraft
[NASA-CASE-LAB-11645-1] c02 N77-10001

VORTEX GENERATORS

Multiple vortex amplifier system as fluid valve
[NASA-CASE-IMP-04709] c15 N71-15609

Smokestack mounted airfoil
[NASA-CASE-LAB-11669-1] c34 N76-13419

Vortex attenuation method --- for multi-engine aircraft
[NASA-CASE-LAB-12034-1] c02 N77-22045

Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAB-12045-1] c34 N77-24423

VORTICES

Vortex-lift roll-control device
[NASA-CASE-LAB-11868-2] c08 N77-31176

VULCANIZING

Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAB-10489-1] c31 N74-18124

W

WAFERS

Separation of semiconductor wafer into chips bounded by scribe lines
[NASA-CASE-ERC-10138] c26 N71-14354

An improved method and apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MPS-23315-1] c76 N76-32029

WALL TEMPERATURE

Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417

Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222

WALLS

Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411

WARNING SYSTEMS

Alarm system design for monitoring one or more relay circuits
[NASA-CASE-XMS-10984-1] c10 N71-19417

Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893

Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-IMP-03968] c14 N71-27186

Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375

Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAB-10545-1] c09 N72-21244

Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643

Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483

Silent alarm system for multiple room facility or school

- [NASA-CASE-WFO-11307-1] c10 N73-30205
Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
- [NASA-CASE-LAF-10717-1] c21 N73-30641
Inverter ratio failure detector
- [NASA-CASE-WFO-13160-1] c35 N74-18090
Passive intrusion detection system
- [NASA-CASE-WFO-13804-1] c35 N77-19390
- WASTE DISPOSAL**
- Fecal waste disposal container
- [NASA-CASE-XMS-06761] c05 N69-23192
Airlock for waste transferal from pressurized enclosure aboard space vehicle to waste receiver at negative pressure
- [NASA-CASE-MFS-20922] c31 N72-20840
Pressurized tank for feeding liquid waste into processing equipment
- [NASA-CASE-LAR-10365-1] c05 N72-27102
Reduced gravity fecal collector seat and urinal
- [NASA-CASE-MFS-22102-1] c54 N74-20725
Airlock
- [NASA-CASE-MFS-20922-1] c18 N74-22136
Automatic liquid inventory collecting and dispensing unit
- [NASA-CASE-LAR-11071-1] c35 N75-19611
Automatic bio waste sampling
- [NASA-CASE-MSC-14640-1] c54 N76-14804
A process of forming catalytic surfaces for oxidation reactions
- [NASA-CASE-MSC-14831-1] c25 N76-23387
- WASTE ENERGY UTILIZATION**
- Pyrolysis system and process --- recovering energy from solid wastes containing hydrocarbons
- [NASA-CASE-MSC-12669-1] c44 N76-16621
- WASTE WATER**
- Process for purification of waste water produced by a Kraft process pulp and paper mill
- [NASA-CASE-WFO-13847-2] c85 N77-17949
Water system virus detection
- [NASA-CASE-MSC-16098-1] c51 N77-24755
- WATER**
- Variable water load for dissipating large amounts of electrical power during high voltage power supply tests
- [NASA-CASE-IMP-05381] c09 N71-20842
Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
- [NASA-CASE-WFO-10230] c06 N72-17094
Hydrogen rich gas generator
- [NASA-CASE-WFO-13342-1] c37 N76-16446
Solar hydrogen generator
- [NASA-CASE-LAR-11361-1] c44 N77-22607
Remote water monitoring system
- [NASA-CASE-LAR-11973-1] c43 N77-28563
- WATER FLOW**
- Potable water dispenser
- [NASA-CASE-MFS-21115-1] c54 N74-12779
- WATER INJECTION**
- Reentry communication by injection of water droplets into plasma layer surrounding space vehicle
- [NASA-CASE-XLA-01552] c07 N71-11284
- WATER LANDING**
- Parachute system for lowering manned spacecraft from post-reentry to ocean landing
- [NASA-CASE-XLA-00195] c02 N70-38009
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
- [NASA-CASE-MSC-13281] c31 N72-18859
- WATER MANAGEMENT**
- Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control
- [NASA-CASE-MSC-10960-1] c03 N71-24718
Solar-powered pump
- [NASA-CASE-WFO-13567-1] c44 N76-29701
- WATER POLLUTION**
- Utilization of solar radiation by solar still for converting salt and brackish water into potable water
- [NASA-CASE-XMS-04533] c15 N71-23086
Portable tester for monitoring bacterial contamination by adenosine triphosphate light reaction
- [NASA-CASE-GSC-10879-1] c14 N72-25413
- WATER RECLAMATION**
- Potable water reclamation from human wastes in zero-G environment
- [NASA-CASE-XLA-03213] c05 N71-11207
Iodine generator for reclaimed water purification
- [NASA-CASE-MSC-14632-1] c54 N75-25594
Water system virus detection
- [NASA-CASE-MSC-16098-1] c51 N77-24755
- WATER TEMPERATURE**
- Differential thermopile for measuring cooling water temperature rise
- [NASA-CASE-XAC-00812] c14 N71-15598
- WATER TREATMENT**
- Description of electrical equipment and system for purification of waste water by producing silver ions for bacterial control
- [NASA-CASE-MSC-10960-1] c03 N71-24718
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
- [NASA-CASE-ARC-10643-1] c25 N75-12087
Water purification process
- [NASA-CASE-ARC-10643-2] c51 N75-13506
Iodine generator for reclaimed water purification
- [NASA-CASE-MSC-14632-1] c54 N75-25594
Air removal device --- for purification of water under zero gravity conditions
- [NASA-CASE-XLA-8914-2] c34 N76-23522
Process for purification of waste water produced by a Kraft process pulp and paper mill
- [NASA-CASE-WFO-13847-2] c85 N77-17949
A reverse osmosis membrane of high urea rejection properties
- [NASA-CASE-ARC-10980-1] c27 N77-18265
Water system virus detection
- [NASA-CASE-MSC-16098-1] c51 N77-24755
- WATER VAPOR**
- Equipment for measuring partial water vapor pressure in gas tank
- [NASA-CASE-XMS-01618] c14 N71-20741
- WATERPROOFING**
- Glass-to-metal seals comprising relatively high expansion metals
- [NASA-CASE-LEW-10698-1] c37 N74-21063
- WAVE AMPLIFICATION**
- Distributed feedback acoustic surface wave oscillator
- [NASA-CASE-WFO-13673-1] c71 N77-26919
- WAVE FRONT RECONSTRUCTION**
- Recording and reconstructing focused image holograms
- [NASA-CASE-BRC-10017] c16 N71-15567
- WAVE GENERATION**
- Wind tunnel air flow modulating device and apparatus for selectively generating wave motion in wind tunnel airstream
- [NASA-CASE-XLA-00112] c11 N70-33287
Linear sawtooth voltage wave generator with transistor timing circuit having capacitor and zener diode feedback loops
- [NASA-CASE-XMS-01315] c09 N70-41675
Sign wave generation simulator for variable amplitude, frequency, damping, and phase pulses for oscilloscope display
- [NASA-CASE-WFO-10251] c10 N71-27365
Wideband generator for producing sine wave quadrature and second harmonic of input signal
- [NASA-CASE-WFO-11133] c10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
- [NASA-CASE-WFO-13263-1] c12 N75-24774
- WAVE REFLECTION**
- Surface defect detection by reflected microwave radiation pattern
- [NASA-CASE-ARC-10009-1] c15 N71-17822
Millimeter wave antenna system for spacecraft use
- [NASA-CASE-GSC-10949-1] c07 N71-28965
- WAVE SCATTERING**
- Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
- [NASA-CASE-MFS-20243] c23 N73-13662
- WAVEFORMS**
- Variable frequency magnetic coupled multivibrator with output signal of constant amplitude and waveform
- [NASA-CASE-XGS-00131] c09 N70-38995

- Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
- Peak polarity selector for monitoring waveforms
[NASA-CASE-FRC-10010] c10 N71-24862
- Development of family of frequency to amplitude converters for frequency analysis of complex input signal waveforms
[NASA-CASE-MSC-12395] c09 N72-25257
- Device for performing statistical time-series analysis of complex electrical signal waveforms
[NASA-CASE-MSC-12428-1] c10 N73-25240
- Low distortion receiver for bi-level baseband FCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320
- Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N77-30309
- WAVEGUIDE ANTENNAS**
- Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NFO-10301] c07 N72-11148
- Dielectric loaded aperture antenna with directive radiation pattern from waveguide
[NASA-CASE-LAR-11084-1] c09 N73-12216
- WAVEGUIDE FILTERS**
- Microwave power divider for providing variable output power to output waveguide in fixed waveguide system
[NASA-CASE-NFO-11031] c07 N71-33606
- WAVEGUIDE WINDOWS**
- Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808
- WAVEGUIDES**
- Dual waveguide mode source for controlling amplitudes of two modes
[NASA-CASE-XNP-03134] c07 N71-10676
- Design of folded traveling wave maser structure
[NASA-CASE-XNP-05219] c16 N71-15550
- Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
- Microwave waveguide mixer
[NASA-CASE-ERC-10179] c17 N72-20141
- Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
- Development of thin film microwave iris installed in microwave waveguide transverse to flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NFO-13544-1] c36 N76-18428
- WAVELENGTHS**
- Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
- Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XIE-00011] c14 N70-41946
- Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
- Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
- Dual wavelength system for monitoring film deposition
[NASA-CASE-MFS-20675] c26 N73-26751
- Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c35 N75-16783
- Diatonic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426
- Two wavelength double pulse tunable dye laser
[NASA-CASE-LAR-12072-1] c36 N77-10517
- WEAR**
- High temperature resistant cermet and ceramic compositions --- for use in thermionic converters or diodes
[NASA-CASE-NFO-13690-1] c27 N76-13294
- WEATHERPROOFING**
- Weatherproof helix antenna
[NASA-CASE-XKS-08485] c07 N71-19493
- WEBS (SHEETS)**
- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c38 N77-17495
- WEBS (SUPPORTS)**
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c12 N77-31213
- WEDGES**
- Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c36 N76-15451
- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c07 N76-22202
- WEIGHT (MASS)**
- Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146
- WEIGHT INDICATORS**
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c35 N74-26945
- WEIGHT MEASUREMENT**
- Weighing and recording device for obtaining precise automatic record of small changes in force
[NASA-CASE-XLA-02605] c14 N71-10773
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c35 N74-26945
- WEIGHTLESSNESS**
- Apparatus for cryogenic liquid storage with heat transfer reduction and for liquid transfer at zero gravity conditions
[NASA-CASE-XIE-00345] c15 N70-38020
- Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
- Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
- Collapse auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-XNF-01390] c28 N70-41275
- Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions
[NASA-CASE-XMS-01492] c05 N70-41297
- Potable water reclamation from human wastes in zero-G environment
[NASA-CASE-XLA-03213] c05 N71-11207
- Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XIE-00586] c15 N71-15968
- Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
- Development of apparatus for simulating zero gravity conditions
[NASA-CASE-MFS-12750] c27 N71-16224
- Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
- Gauge for measuring quantity of liquid in spherical tank in reduced gravity
[NASA-CASE-XMS-06236] c14 N71-21007
- Zero gravity apparatus utilizing pneumatic decelerating means to create payload subjected to zero gravity conditions by dropping its height
[NASA-CASE-XNF-06515] c14 N71-23227
- Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738

- Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-IMP-09770-3] c11 N71-27036
- Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties
[NASA-CASE-IMP-C9902] c15 N72-11387
- Manipulator for remote handling in zero gravity environment
[NASA-CASE-MFS-14405] c15 N72-28495
- Apparatus for mixing two or more liquids under zero gravity conditions
[NASA-CASE-LAR-10195-1] c15 N73-19458
- Zero gravity liquid transfer device, using spiral shaped screen
[NASA-CASE-RSC-10626] c14 N73-27378
- Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c54 N74-20725
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[NASA-CASE-MFS-21394-1] c34 N74-27744
- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c51 N75-25503
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[NASA-CASE-MSC-14653-1] c35 N77-19385
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- Apparatus for measuring human body mass in zero or reduced gravity environment
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[NASA-CASE-MFS-14671] c05 N71-12341
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Free-fall body for obtaining wind velocity profiles by radar tracking
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[NASA-CASE-XAC-00319] c25 N70-41628

Free flight suspension system for use with aircraft models in wind tunnel tests
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Burst diaphragm flow initiator for installation in short duration wind tunnels
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[NASA-CASE-XAC-01677] c09 N71-20816

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[NASA-CASE-XNP-03576] c11 N71-23030

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[NASA-CASE-XNP-00250] c11 N71-28779

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[NASA-CASE-XNP-03576] c11 N71-23030

Damper system for alleviating air flow shock loads on wind tunnel models
[NASA-CASE-XIA-05480] c11 N71-33612

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WIND TUNNEL TESTS

Multi-purpose wind tunnel reaction control model block
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Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
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[NASA-CASE-XIA-02081] c20 N71-16281

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Polymer coatings for moisture protection of optical windows in infrared spectroscopy
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[NASA-CASE-ARC-10813-1] c27 N76-16230

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Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
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[NASA-CASE-XIA-00166] c02 N70-34178

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[NASA-CASE-IAR-11645-1] c02 N77-10001

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[NASA-CASE-AEC-10905-1] c37 N77-13418

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[NASA-CASE-LAR-10574-1] c11 N73-13257

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[NASA-CASE-MSC-12631-1] c24 N77-28225

Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132

An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135

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Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XIE-00020] c15 N70-33226

Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214

Device for bending metal ribbon or wire
[NASA-CASE-XLA-05966] c15 N72-12408

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[NASA-CASE-FRC-10038] c15 N72-20444

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[NASA-CASE-MFS-13687-2] c09 N72-22198

Twisted wire or tube superconductor for filament windings
[NASA-CASE-LFW-11015] c26 N73-32571

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Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809

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Insulating system for receptacles of liquefied gases using wire cloth for forming frost layer
[NASA-CASE-XNP-00341] c15 N70-33323

Method for making screen with unlimited fineness of mesh and screen thickness
[NASA-CASE-XIE-00953] c15 N71-15966

WIRE WINDING

Adjustable spiral wire winding device
[NASA-CASE-XMS-02383] c15 N71-15918

Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XIE-02823] c09 N71-23443

Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-XGS-07805] c15 N72-33476

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Silent alarm system for multiple room facility or school
[NASA-CASE-NFO-11307-1] c10 N73-30205

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Acoustic vibration test apparatus for wiring harnesses
[NASA-CASE-MSC-15158-1] c14 N72-17325

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data for communication purposes
[NASA-CASE-NFO-10595] c10 N71-25917
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code word in parallel
[NASA-CASE-INF-04623] c10 N71-26103
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for driving each word location
[NASA-CASE-INF-01466] c10 N71-26434

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Ultrasonic wrench for applying vibratory energy
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[NASA-CASE-NFS-20586] c15 N71-17686
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[NASA-CASE-NFS-22283-1] c37 N75-33395
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[NASA-CASE-NFC-13059-1] c37 N76-20480

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[NASA-CASE-NFS-23311-1] c37 N76-28554

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[NASA-CASE-NFS-20243] c23 N73-13662

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[NASA-CASE-NFO-13808-1] c35 N77-24456

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An improved method and apparatus for use in
examining the lattice of a semiconductor wafer
by X-ray diffraction
[NASA-CASE-NFS-23315-1] c76 N76-32029

X RAY INSPECTION
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[NASA-CASE-NFS-21931-1] c37 N75-26372
An improved method and apparatus for use in
examining the lattice of a semiconductor wafer
by X-ray diffraction
[NASA-CASE-NFS-23315-1] c76 N76-32029

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Multisample test chamber for exposing materials
to X rays, temperature change, and gaseous
conditions and determination of material effects
[NASA-CASE-NFS-02930] c11 N71-23042

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[NASA-CASE-NFO-13532-1] c36 N75-15973

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[NASA-CASE-NFS-21372-1] c74 N74-27866
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[NASA-CASE-NFS-22409-2] c74 N76-26988

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[NASA-CASE-INF-06031] c15 N71-15606
Low intensity X-ray and gamma-ray imaging device
[NASA-CASE-GSC-12263-1] c35 N77-29471

X-Y PLOTTERS
Describing device for surveying contour of
surface using X-Y plotter and traveling
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[NASA-CASE-XLA-06646] c14 N71-17586
Magnetometer --- with an automatic scanning
transducer
[NASA-CASE-LAR-11617-2] c35 N77-17430

X-15 AIRCRAFT
Data processing and display system for terminal
guidance of X-15 aircraft
[NASA-CASE-IFR-00756] c22 N71-13421

XENON ISOTOPES
Apparatus for producing high purity I-123 from
Xe-123 by bombarding tellurium target with
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[NASA-CASE-LEW-10516-2] c24 N72-28714

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[NASA-CASE-FRC-10283] c16 N72-25485

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[NASA-CASE-GSC-11746-1] c36 N75-19654
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[NASA-CASE-GSC-11571-1] c36 N77-25499

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[NASA-CASE-MSC-19568-1] c37 N76-23585

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Three-axis controller operated by hand-wrist
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[NASA-CASE-XAC-01404] c05 N70-41581

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Stretch Yo-Yo mechanism for reducing initial
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[NASA-CASE-XGS-00619] c30 N70-40016

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[NASA-CASE-NFS-14711] c15 N71-26185
Soft X-ray laser using crystal channels as
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[NASA-CASE-NFO-13532-1] c36 N75-15973

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Zinc dust formulation for abrasion resistant
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[NASA-CASE-GSC-10361-1] c18 N72-23581
Rechargeable battery which combats shape change
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[NASA-CASE-NQN-10862-1] c44 N76-29699

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Water content in vapor deposition atmosphere for
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[NASA-CASE-INF-01961] c26 N71-29156
Vacuum preparation of zinc titanate pigment
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[NASA-CASE-NFS-13532] c18 N72-17532
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[NASA-CASE-NFO-11961-1] c44 N76-18643
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[NASA-CASE-NFS-23345-1] c27 N77-30237

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[NASA-CASE-INF-07770-2] c18 N71-26772
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[NASA-CASE-FRC-10019] c15 N73-12487

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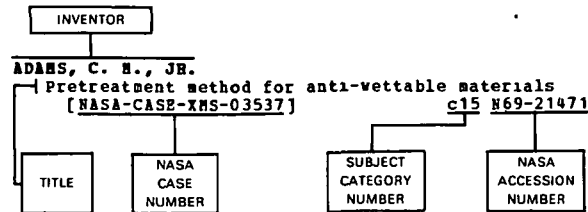
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Section 2

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Two axis fluxgate magnetometer Patent
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[NASA-CASE-GSC-11844-1] c33 N75-19522

ADACHI, E. E.
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[NASA-CASE-AFC-10447-1] c52 N74-22771

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Pretreatment method for anti-wettable materials
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ALBRECHT, W. F.
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ALBREIGHT, C. F.
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[NASA-CASE-MSC-10960-1] c03 N71-24718
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ALLEN, J. G., JR.
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[NASA-CASE-MFS-22749-1] c44 N76-14601

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[NASA-CASE-MFO-10189-1] c33 N77-21314

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[NASA-CASE-XLA-04787] c03 N71-20492

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[NASA-CASE-GSC-10835-1] c09 N72-33205

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[NASA-CASE-ERC-10081]	c14 N72-28437	Grinding arrangement for ball nose milling cutters	
Method and apparatus for measuring solar activity and atmospheric radiation effects		[NASA-CASE-LAR-10450-1]	c37 N74-27905
[NASA-CASE-ERC-10276]	c14 N73-26432	BURCH, J. L.	
BROWNING, R. E.		Two speed drive system	
Flexible seal for valves Patent		[NASA-CASE-MFS-20645-1]	c37 N74-23070
[NASA-CASE-XLE-00101]	c15 N70-33376	Automatically operable self-leveling load table	
BROYLES, B. F.		[NASA-CASE-MFS-22039-1]	c09 N75-12968
Parallel plate viscometer Patent		Actuator device for artificial leg	
[NASA-CASE-XNF-09462]	c14 N71-17584	[NASA-CASE-MFS-23225-1]	c52 N77-14735
Method of making hollow elastomeric bodies		Combined docking and grasping device	
[NASA-CASE-NFO-13535-1]	c37 N76-31524	[NASA-CASE-MFS-23088-1]	c37 N77-23483
BROYLES, B. B.		Apparatus for assembling space structure	
Parallel plate viscometer Patent		[NASA-CASE-MFS-23579-1]	c12 N77-31213
[NASA-CASE-XNF-09462]	c14 N71-17584	BURCHAM, T. W.	
BRUCE, M. B., JR.		Controlled release device Patent	
Computerized system for translating a torch head		[NASA-CASE-XMS-03338]	c15 N71-24043
[NASA-CASE-MFS-23620-1]	c37 N77-24497	BURCHER, E. E.	
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Specialized halogen generator for purification of water Patent		[NASA-CASE-LAR-10311-1]	c16 N73-16536
[NASA-CASE-XIA-08913]	c14 N71-28933	Transmitting and reflecting diffuser	
Air removal device		[NASA-CASE-LAR-10385-3]	c23 N73-32538
[NASA-CASE-XIA-8914]	c15 N73-12492	Transmitting and reflecting diffuser	
Zero gravity liquid mixer		[NASA-CASE-LAR-10385-2]	c70 N74-13436
[NASA-CASE-LAR-10195-1]	c15 N73-19458	Automatic focus control for facsimile cameras	
Centrifugal lyophobic separator		[NASA-CASE-LAR-11213-1]	c35 N75-15014
[NASA-CASE-LAR-10194-1]	c34 N74-30608	Spectrometer integrated with a facsimile camera	
Air removal device		[NASA-CASE-LAR-11207-1]	c35 N75-19613
[NASA-CASE-XIA-8914-2]	c34 N76-23522	Device for measuring the contour of a surface	
BRUNSTEIN, S. A.		[NASA-CASE-LAR-11869-1]	c35 N77-10497
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Autoignition test cell Patent		BURGETT, F. A.	
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[NASA-CASE-XLE-00503]	c14 N70-34818	Method and apparatus for wavelength tuning of liquid lasers	
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[NASA-CASE-XLE-01765]	c18 N71-10772	High pulse rate high resolution optical radar system	
Alloys for bearings Patent		[NASA-CASE-NFO-11426]	c07 N73-26119
[NASA-CASE-XLE-05033]	c15 N71-23810	BURNS, E. E.	
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CASON, B. L.
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CASTLE, K. D.
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CASTLEMAN, K.
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CECCON, H. L.
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CHAMBERS, A. B.
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[NASA-CASE-NFO-13519-1] c33 N76-19338

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[NASA-CASE-XLE-03778]	c09 N69-21542	Electro-mechanical sine/cosine generator	
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent		[NASA-CASE-LAR-10503-1]	c09 N72-21248
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PINLEY, T. D.		[NASA-CASE-LAR-10806-1]	c35 N74-32877
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[NASA-CASE-MFS-21046-1] c14 N73-27377
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biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078
Manual actuator
[NASA-CASE-MFS-21481-1] c37 N74-18127
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c52 N74-27864
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[NASA-CASE-MFS-21045-1] c35 N75-15932

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[NASA-CASE-MFO-11078] c09 N72-25262

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[NASA-CASE-LFW-11581-1] c54 N75-13531

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[NASA-CASE-LFW-11696-1] c37 N75-13261
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[NASA-CASE-ABC-10266-1] c33 N75-29318

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[NASA-CASE-LAR-10416-1] c24 N74-30001

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[NASA-CASE-MFS-19220-1] c20 N76-22296

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compensating for photocell aging Patent
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[NASA-CASE-ILA-00210] c30 N70-40309

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 [NASA-CASE-LEW-11101-1] c31 N73-32750
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Combustion chamber Patent		[NASA-CASE-XMS-04545]	c15 N71-22878
[NASA-CASE-XLE-04657]	c28 N71-23968	Winch having cable position and load indicators Patent	
Rocket thrust throttling system		[NASA-CASE-MSC-12052-1]	c15 N71-24599
[NASA-CASE-LEW-10374-1]	c28 N73-13773	GRUBER, C. L.	
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Rotating launch device for a remotely piloted aircraft		[NASA-CASE-GSC-10216-1]	c23 N71-26722
[NASA-CASE-ARC-1C979-1]	c09 N77-19076	GRUNBAUM, B. W.	
GRIEVE, S. M.		Automatic multiple-sample applicator and electrophoresis apparatus	
Apparatus for testing wiring harness by vibratic generating means		[NASA-CASE-ARC-10991-1]	c25 N77-12157
[NASA-CASE-MSC-15158-1]	c14 N72-17325	GRUNTHAWER, F. J.	
GRIFFIN, P. D.		Soft X-ray laser using crystal channels as distributed feedback cavities	
Device for determining the accuracy of the flare on a flared tube		[NASA-CASE-NFO-13532-1]	c36 N75-15973
[NASA-CASE-XKS-03495]	c14 N69-39785	Photoelectron spectrometer with means for stabilizing sample surface potential	
Optical monitor panel Patent		[NASA-CASE-NFO-13772-1]	c35 N76-26450
[NASA-CASE-XKS-03509]	c14 N71-23175	GUILLOTTE, R. J.	
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[NASA-CASE-MFS-21394-1]	c34 N74-27744	GUISINGER, J. E.	
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Fluid jet amplifier		[NASA-CASE-XNP-01058]	c09 N71-12540
[NASA-CASE-XIE-03512]	c12 N69-21466	Variable frequency nuclear magnetic resonance spectrometer Patent	
Fluid jet amplifier Patent		[NASA-CASE-XNP-09830]	c14 N71-26266
[NASA-CASE-XIE-03941]	c12 N71-28741	High voltage transistor amplifier with constant current load	
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[NASA-CASE-XLA-00141]	c09 N70-33312	[NASA-CASE-NFO-11317-2]	c36 N74-13205
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[NASA-CASE-MFS-23513-1]	c74 N77-14842	[NASA-CASE-ARC-10461-1]	c44 N74-33379
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[NASA-CASE-XLE-01604-2]	c15 N71-15610	[NASA-CASE-XLA-02651]	c28 N70-41967
Nickel aluminide coated low alloy stainless steel		GUNTER, W. D., JR.	
[NASA-CASE-LEW-11267-1]	c17 N73-32414	Multiple pass reimaging optical system	
Method of protecting the surface of a substrate		[NASA-CASE-ARC-10194-1]	c23 N73-20741
[NASA-CASE-LEW-11696-1]	c37 N75-13261	Dual wavelength scanning Doppler velocimeter	
Duplex aluminized coatings		[NASA-CASE-ARC-10637-1]	c35 N75-16783
[NASA-CASE-LEW-11696-2]	c26 N75-19408	Schlieren system employing antiparallel reflector in the forward direction	
Fused silicide coatings containing discrete particles for protecting niobium alloys		[NASA-CASE-ABC-10971-1]	c09 N76-26224
[NASA-CASE-LEW-11179-1]	c27 N76-16229	Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction	
GRISWOLD, R. B., JR.		[NASA-CASE-ABC-10970-1]	c36 N77-25501
Dual output variable pitch turbofan actuation system		GUTLER, C. A.	
[NASA-CASE-LEW-12419-1]	c07 N77-14025	Ablation sensor	
GROBMAN, J.		[NASA-CASE-XLA-01781]	c14 N69-39975
Electric propulsion engine test chamber Patent		Pressurized cell micrometeoroid detector Patent	
[NASA-CASE-XLE-00252]	c11 N70-34844	[NASA-CASE-XLA-00936]	c14 N71-14996
GROON, W. J.		Dual measurement ablation sensor	
Electromagnetic mirror drive system		[NASA-CASE-IAB-10105-1]	c34 N74-15652
[NASA-CASE-XLA-03724]	c14 N69-27461	GUSSOW, S. S.	
Variable pulse width multiplier Patent		Pseudo-noise test set for communication system evaluation	
[NASA-CASE-XLA-02850]	c09 N71-20447	[NASA-CASE-MFS-22671-1]	c35 N75-21582
Annular momentum control device used for stabilization of space vehicles and the like		Method of and means for testing a tape record/playback system	
[NASA-CASE-LAR-11051-1]	c15 N76-14158	[NASA-CASE-MFS-22671-2]	c35 N77-17426
Magnetic suspension and counting system		GUSTAFSON, G. L.	
[NASA-CASE-LAR-11889-1]	c19 N76-18227	Apparatus for measuring thermal conductivity Patent	
GROSE, W. L.		[NASA-CASE-IGS-01052]	c14 N71-15992
Combustion detector		GUTSHALL, R. L.	
[NASA-CASE-LAR-10739-1]	c14 N73-16484	Star scanner	
GROSS, C.		[NASA-CASE-GSC-11569-1]	c89 N74-30886
Method of temperature compensating semiconductor strain gages Patent		GUY, J. T., SR.	
[NASA-CASE-XLA-04555-1]	c14 N71-25892	Disk pack cleaning table Patent Application	
Infrared detectors		[NASA-CASE-IAB-10590-1]	c15 N70-26819
[NASA-CASE-IAB-10728-1]	c14 N73-12445	GEORGAK, C. A.	
GROSS, W. J.		Process for applying a protective coating for salt bath brazing Patent	
Method of fabricating an object with a thin wall having a precisely shaped slit		[NASA-CASE-ILE-00046]	c15 N70-33311
[NASA-CASE-LAR-10409-1]	c31 N74-21059	Protective device for machine and metalworking tools Patent	
GROYE, W. G.		[NASA-CASE-ILE-01092]	c15 N71-22797
Optical inspection apparatus Patent		Extrusion die for refractory metals Patent	
[NASA-CASE-IMP-00462]	c14 N70-34298	[NASA-CASE-ILE-06773]	c15 N71-23817
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 scanning system Patent
 [NASA-CASE-ERC-10552] c09 N71-12539
 Fluidic-thermochromic display device Patent
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 [NASA-CASE-ERC-10100] c09 N71-33519
- HILDEBRANDT, A. F.**
 Helium refining by superfluidity Patent
 [NASA-CASE-XNP-00733] c06 N70-34946
 Continuous magnetic flux pump
 [NASA-CASE-XNF-01187] c15 N73-28516
 Superconductive magnetic-field-trapping device
 [NASA-CASE-XNP-01185] c26 N73-28710
 Magnetic-flux pump
 [NASA-CASE-XNP-01188] c15 N73-32361
- HILKER, W. R.**
 Folding structure fabricated of rigid panels
 [NASA-CASE-IBQ-02146] c18 N75-27040
- HILL, E. K.**
 Ultrasonic scanner for radial and flat panels
 [NASA-CASE-HFS-20335-1] c35 N74-10415
- HILL, O. E.**
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 [NASA-CASE-HFS-12915] c11 N71-17600
 Wind tunnel test section
 [NASA-CASE-HFS-20509] c11 N72-17183
- HILL, P. R.**
 Heat protection apparatus Patent
 [NASA-CASE-XIA-00892] c33 N71-17897
 Kinesthetic control simulator
 [NASA-CASE-IAR-10276-1] c09 N75-15662
- HILL, W. E.**
 Sprayable low density ablator
 [NASA-CASE-HFS-23506-1] c24 N77-15105
- HILLBERG, E. I.**
 Load relieving device Patent
 [NASA-CASE-HMS-06329-1] c15 N71-20441
- HILLBORN, E. R.**
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 color cathode ray tube Patent
 [NASA-CASE-ERC-10098] c09 N71-28618
- HILLIS, D. A.**
 Drift compensation circuit for analog to digital
 converter Patent
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- HILLMAN, C. E., JR.**
 Snap-in compressible biomedical electrode
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- HILTON, G. E.**
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 method Patent
 [NASA-CASE-GSC-10083-1] c30 N71-16090
- HINNELIGHT, E. H.**
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 segment valve Patent
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- HIRAYANA, C.**
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- HIRSHFIELD, S. H.**
 Gas liquefaction and dispensing apparatus Patent
 [NASA-CASE-HFO-10070] c15 N71-27372
 Novel polymers and method of preparing same
 [NASA-CASE-HFO-10998-1] c06 N73-32029
- HITCHMAN, H. J.**
 Automatic real-time pair-feeding system for
 animals
 [NASA-CASE-ABC-10302-1] c51 N74-15778
- HOBAIT, R. F.**
 Liquid flow sight assembly Patent
 [NASA-CASE-XLE-02998] c14 N7C-42074
- HOBBES, A. J.**
 Method and apparatus for determining the
 contents of contained gas samples
 [NASA-CASE-GSC-10903-1] c14 N73-12444

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Unfurlable structure including coiled strips
thrust launched upon tension release Patent
[NASA-CASE-BQX-00937] c07 N71-28979

BOCHNAIR, E. S.
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c09 N73-20232
Integrated F-channel MCS gyrator
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Integrable power gyrator
[NASA-CASE-MFS-22342-1] c33 N75-30428

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Apparatus for remote handling of materials
[NASA-CASE-LAR-10634-1] c37 N74-18123

BODGES, D. H.
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029

HOFFLER, G. W.
Apparatus and method for processing Korotkov
sounds
[NASA-CASE-MSC-13999-1] c52 N74-26626
A logic-controlled occlusive cuff system
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Impact energy absorber Patent
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Self-supporting strain transducer
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Miniature biaxial strain transducer
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HOFFMAN, L. A.
Compensating bandwidth switching transients in
an amplifier circuit Patent
[NASA-CASE-XMP-01107] c10 N71-28859

HOFFMAN, R. A.
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Tunable cavity resonator with ramp shaped supports
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HOHL, F.
Volumetric direct nuclear pumped laser
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HOKLO, K. B.
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c15 N73-28515

HOLDEN, L. E.
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c76 N76-30084

HOLDEN, G. B.
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[NASA-CASE-XAR-01547] c05 N69-21473

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Electric arc driven wind tunnel Patent
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Digital second-order phase-locked loop
[NASA-CASE-WFO-11905-1] c33 N74-12887

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Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c14 N70-40201

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Enhanced diffusion welding
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Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c37 N74-11300
Diffusion welding in air
[NASA-CASE-LEW-11387-1] c37 N74-18128
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Protection of moisture sensitive optical
components
[NASA-CASE-ARC-10749-1] c23 N73-32542
Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c25 N75-12087

Water purification process
[NASA-CASE-ARC-10643-2] c51 N75-13506
Oxygen post-treatment of plastic surfaces coated
with plasma polymerized silicon-containing
monomers
[NASA-CASE-ARC-10915-2] c27 N77-20256
Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200

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Signal conditioning circuit apparatus
[NASA-CASE-ARC-10348-1] c33 N75-19518

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polycarbonates
[NASA-CASE-MFS-10512] c06 N73-30099
Highly fluorinated polymers
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method Patent
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Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c02 N71-19287
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[NASA-CASE-GSC-10087-3] c07 N72-12080
Doppler compensation by shifting transmitted
object frequency within limits
[NASA-CASE-GSC-10087-4] c07 N73-20174

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Automatic lightning detection and photographic
system
[NASA-CASE-KSC-10728-1] c14 N73-32319
Microcomputerized electric field meter
diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321

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workpiece
[NASA-CASE-LAR-11658-1] c37 N77-14478

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a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c33 N77-27308

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unit
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Shielded cathode mode bulk effect devices
[NASA-CASE-FRC-10119] c26 N72-21701

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Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c09 N69-39984
SCR blocking pulse gate amplifier Patent
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HOLT, W. I.
Scan converting video tape recorder
[NASA-CASE-WFO-10166-1] c07 N73-22076
Scan converting video tape recorder
[NASA-CASE-WFO-10166-2] c35 N76-16391
Electromagnetic transducer recording head having
a laminated core section and tapered gap

[NASA-CASE-NEC-10711-1]	c35 N77-21392	[NASA-CASE-IXF-01892]	c10 N71-22986
HOLTZE, R. F.		HOTZ, G. H.	
Coating process		Soil penetrometer	
[NASA-CASE-IXP-06508]	c18 N69-39895	[NASA-CASE-IXP-05530]	c14 N73-32321
HOLWAY, R. F.		Burrowing apparatus	
Model launcher for wind tunnels Patent		[NASA-CASE-IXP-07169]	c15 N73-32362
[NASA-CASE-IXP-03578]	c11 N71-23030	HOUCK, W. H.	
HOMKES, B. J.		Voltage dropout sensor Patent	
Multiparameter vision testing apparatus		[NASA-CASE-NFO-10020]	c10 N71-27338
[NASA-CASE-MSC-13601-2]	c54 N75-27759	Ripple indicator	
HONEY, R. W.		[NASA-CASE-KSC-10162]	c09 N72-11225
Optimum predetection diversity receiving system		Signal conditioner test set	
Patent		[NASA-CASE-KSC-10750-1]	c35 N75-12270
[NASA-CASE-XGS-CC740]	c07 N71-23098	HOUSEMAN, J.	
HONEYCUTT, L., JR.		Hydrogen rich gas generator	
Thermal shock and erosion resistant tantalum		[NASA-CASE-NFO-13342-1]	c37 N76-16446
carbide ceramic material		Hydrogen-rich gas generator	
[NASA-CASE-IAR-11902-1]	c27 N76-23436	[NASA-CASE-NFO-13464-1]	c44 N76-18642
HONG, J. P.		Hydrogen rich gas generator	
Real time analysis of voiced sounds		[NASA-CASE-NFO-13342-2]	c44 N76-29700
[NASA-CASE-NFO-13465-1]	c32 N76-31372	Hydrogen rich gas generator	
HONNELL, M. A.		[NASA-CASE-NFO-13464-2]	c44 N76-29704
Automatic frequency control for FM transmitter		Hydrogen-rich gas generator	
[NASA-CASE-MFS-21540-1]	c32 N74-19790	[NASA-CASE-NFO-13560-1]	c44 N77-10636
Isolated output system for a class D		Combustion engine	
switching-mode amplifier		[NASA-CASE-NFO-13671-1]	c37 N77-31497
[NASA-CASE-MFS-21616-1]	c33 N75-30429	HOWARD, E. A.	
Frequency modulated oscillator		Soil penetrometer	
[NASA-CASE-MFS-22181-1]	c33 N77-17351	[NASA-CASE-IXP-05530]	c14 N75-32321
HOOD, R. T.		Burrowing apparatus	
Hall current measuring apparatus having a series		[NASA-CASE-IXP-07169]	c15 N73-32362
resistor for temperature compensation Patent		HOWARD, F. S.	
[NASA-CASE-IAC-01662]	c14 N71-23037	Geysering inhibitor for vertical cryogenic	
HOOP, J. H.		transfer pipe	
Method and apparatus for nondestructive testing		[NASA-CASE-KSC-10615]	c15 N73-12486
[NASA-CASE-MFS-21233-1]	c38 N74-15395	Floating baffle to improve efficiency of liquid	
Ultrasonic bone densitometer		transfer from tanks	
[NASA-CASE-MFS-20994-1]	c35 N75-12271	[NASA-CASE-KSC-10639]	c15 N73-26472
HOOPER, C. D.		Zero gravity liquid transfer screen	
Extensometer Patent		[NASA-CASE-KSC-10626]	c14 N73-27378
[NASA-CASE-IXF-04680]	c15 N71-19489	HOWARD, J. C.	
HOOPER, E. B.		Means for suppressing or attenuating bending	
Oscillator of multiple plates with axially		motion of elastic bodies Patent	
aligned identical random arrays of apertures		[NASA-CASE-XAC-05632]	c32 N71-23971
[NASA-CASE-MFS-20546-2]	c14 N73-30389	G-load measuring and indicator apparatus	
Automatic lightning detection and photographic		[NASA-CASE-ARC-10806]	c06 N74-27872
system		G-load measuring and indicator apparatus	
[NASA-CASE-KSC-10728-1]	c14 N73-32319	[NASA-CASE-ARC-10806-1]	c35 N75-29381
Three mirror glancing incidence system for X-ray		HOWARD, P. W.	
telescope		Apparatus for reducing aerodynamic noise in a	
[NASA-CASE-MFS-21372-1]	c74 N74-27866	wind tunnel	
Multiplate focusing collimator		[NASA-CASE-MFS-23099-1]	c09 N76-23273
[NASA-CASE-MFS-20932-1]	c35 N75-19616	HOWARD, W. D.	
HOOPER, R. J.		Method and device for detecting voids in low	
Extrusion die for refractory metals Patent		density material Patent	
[NASA-CASE-IXF-06773]	c15 N71-23817	[NASA-CASE-MFS-20044]	c14 N71-28993
HOPKINS, P. H.		HOWARD, W. H.	
Differential phase shift keyed communication		Skeletal stressing method and apparatus Patent	
system		[NASA-CASE-ARC-10100-1]	c05 N71-24738
[NASA-CASE-MSC-14065-1]	c32 N74-26654	Programmable physiological infusion	
Differential phase shift keyed signal resolver		[NASA-CASE-ARC-10447-1]	c52 N74-22771
[NASA-CASE-MSC-14066-1]	c33 N74-27705	Tread drum for animals	
HOPKINS, V.		[NASA-CASE-ARC-10917-1]	c37 N76-20485
Inorganic solid film lubricants Patent		HOWARTH, J. T.	
[NASA-CASE-IXF-03988]	c15 N71-21403	Non-flammable elastomeric fiber from a	
HOPPING, R. L.		fluorinated elastomer and containing an	
Landing gear Patent		halogenated flame retardant	
[NASA-CASE-IXF-01174]	c02 N70-41589	[NASA-CASE-MSC-14331-1]	c27 N76-24405
HORNE, W. B.		Flame retardant elastomeric compositions	
Aircraft wheel spray drag alleviator Patent		[NASA-CASE-MSC-14331-2]	c27 N76-24408
[NASA-CASE-XLA-01583]	c02 N70-36825	Flame retardant elastomeric compositions	
HORNE, J. L.		[NASA-CASE-MSC-14331-3]	c27 N76-24409
Photographic film restoration system		HOWE, T. L.	
[NASA-CASE-MSC-12448-1]	c14 N72-20394	Strain gauge ambiguity sensor for segmented	
Optical noise suppression device and method		mirror active optical system	
[NASA-CASE-MSC-12640-1]	c74 N76-31998	[NASA-CASE-MFS-20506-1]	c35 N75-12273
HORTON, D. B.		HOWELL, J. E.	
Instrument support with precise lateral		Device for directionally controlling	
adjustment Patent		electromagnetic radiation Patent	
[NASA-CASE-IXF-00480]	c14 N70-39898	[NASA-CASE-XLE-01716]	c09 N70-40234
HORTON, J. C.		HOWELL, W. E.	
Method of making impurity-type semiconductor		Fringe counter for interferometers Patent	
electrical contacts Patent		[NASA-CASE-LAB-10204]	c14 N71-27215
[NASA-CASE-IXF-01016]	c26 N71-17818	Star image motion compensator	
HORTON, R. L.		[NASA-CASE-LAB-10523-1]	c14 N72-22444
Method and apparatus for mapping planets		HOWLAND, B. T.	
[NASA-CASE-NFO-11001]	c07 N72-21118	High pressure air valve Patent	
HOSETHORN, B. H.		[NASA-CASE-MSC-11010]	c15 N71-19485
Adaptive tracking notch filter system Patent			

HOYT, R. F.
In situ transfer standard for ultrahigh vacuum
gage calibration
[NASA-CASE-IAR-10862-1] c35 N74-15092

HRACE, P. J.
Capacitor and method of making same Patent
[NASA-CASE-LFW-10364-1] c09 N71-13522

HROB, R. L.
Load current sensor for a series pulse width
modulated power supply
[NASA-CASE-GSC-10656-1] c09 N72-25249

HROBT, R. J.
Microwave flow detector Patent
[NASA-CASE-ARC-10009-1] c15 N71-17822

Transient video signal recording with expanded
playback Patent
[NASA-CASE-ARC-10003-1] c09 N71-25866

Method and apparatus for swept-frequency
impedance measurements of welds
[NASA-CASE-ARC-10176-1] c15 N72-21464

Coaxial inverted geometry transistor having
buried emitter
[NASA-CASE-ARC-10230-1] c09 N73-32112

Twin-capacitive shaft angle encoder with analog
output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404

HRYNIEWICKI, E.
Vehicle for use in planetary exploration
[NASA-CASE-NFO-11366] c11 N73-26238

HSU, G. C.
Aldehyde-containing urea-adsorbing polysaccharides
[NASA-CASE-NFO-13620-1] c27 N77-30236

HSU, L. C.
Catalytic trimerization of aromatic nitriles and
triaryl-s-triazine ring cross-linked high
temperature resistant polymers and copolymers
made thereby
[NASA-CASE-LFW-12053-1] c27 N74-34579

Catalytic trimerization of aromatic nitriles and
triaryl-s-triazine ring cross-linked high
temperature resistant polymers and copolymers
made thereby
[NASA-CASE-LFW-12053-2] c23 N77-32244

HSU, Y.-Y.
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLF-02083] c03 N69-39983

HUBBARD, W. P.
Digital demodulator-correlator
[NASA-CASE-NFO-13982-1] c32 N77-24341

HUBER, C. S.
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freeze-dried rice
[NASA-CASE-MSC-13540-1] c05 N72-33096

HUBER, W. C.
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c05 N71-12336

Inflatable tether Patent
[NASA-CASE-XMS-10993] c15 N71-28936

Foldable construction block
[NASA-CASE-MSC-12233-1] c15 N72-25454

Foldable construction block
[NASA-CASE-MSC-12233-2] c32 N73-13921

Fluid valve assembly
[NASA-CASE-MSC-12731-1] c37 N76-26511

HUDIS, M.
Preparation of dielectric coatings of variable
dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c27 N77-17245

HUDOCK, R. J.
Reference apparatus for medical ultrasonic
transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760

HUDSON, O. K.
Gravimeter Patent
[NASA-CASE-XMF-05844] c14 N71-17587

HUDSPETH, I.
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loops Patent
[NASA-CASE-XMF-00777] c10 N71-19469

HUELSMAN, L. E.
RC networks and amplifiers employing the same
[NASA-CASE-IAC-05462-2] c10 N72-17171

HUFF, R. G.
Apparatus for sensing temperature
[NASA-CASE-XLF-05230] c14 N72-27410

Method of making apparatus for sensing temperature
[NASA-CASE-XLF-05230-2] c14 N73-13417

Jet exhaust noise suppressor
[NASA-CASE-LFW-11286-1] c07 N74-27490

HUFFAKER, R. B.
Laser Doppler system for measuring three
dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c21 N71-19212

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028

Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c35 N77-10493

Wind measurement system
[NASA-CASE-MFS-23362-1] c47 N77-10753

HUGGINS, C. T.
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c07 N71-24612

HUGHES, B. C.
Air bearing Patent
[NASA-CASE-XMF-00339] c15 N70-39896

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Fast scan control for deflection type mass
spectrometers
[NASA-CASE-IAR-10766-1] c14 N72-21432

Fast scan control for deflection type mass
spectrometers
[NASA-CASE-IAR-11428-1] c35 N74-34857

HUGHES, F. M.
Meteoroid detector
[NASA-CASE-IAR-10483-1] c14 N73-32327

HUMBERT, J. E.
Automatic real-time pair-feeding system for
animals
[NASA-CASE-ARC-10302-1] c51 N74-15778

HUMENIK, P. M.
Gas turbine combustor Patent
[NASA-CASE-LFW-10286-1] c28 N71-28915

HUMES, D. E.
Impact measuring technique
[NASA-CASE-IAR-10913] c14 N72-16282

HUMMER, R. F.
Camera arrangement
[NASA-CASE-GSC-12032-2] c35 N76-19408

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Process for purification of waste water produced
by a Kraft process pulp and paper mill
[NASA-CASE-NFO-13847-2] c85 N77-17949

HUNGERFORD, W. J.
Conforming polisher for aspheric surface of
revolution Patent
[NASA-CASE-XGS-02884] c15 N71-22705

HUNKLEIN, R. E.
Foamed in place ceramic refractory insulating
material Patent
[NASA-CASE-XGS-02435] c18 N71-22998

HUNT, G. B.
System for the measurement of ultra-low stray
light levels
[NASA-CASE-MFS-23513-1] c74 N77-14842

HUNT, J. G.
Extrusion can
[NASA-CASE-NFO-10812] c15 N73-13464

HUNT, S. B., JR.
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759

HUNTER, R. E.
Method and apparatus for neutralizing potentials
induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429

HUNTERSS, W. I.
Ion and electron detector for use in an ICR
spectrometer
[NASA-CASE-NFO-13479-1] c35 N77-10492

HORD, W. A.
System for the measurement of ultra-low stray
light levels
[NASA-CASE-MFS-23513-1] c74 N77-14842

HORD, W. J.
Digital filter for reducing sampling jitter in
digital control systems Patent
[NASA-CASE-NFO-11088] c08 N71-29034

Transition tracking bit synchronization system
[NASA-CASE-NFO-10844] c07 N72-20140

Digital quasi-exponential function generator
[NASA-CASE-NFO-11130] c08 N72-20176

Code regenerative clean-up loop transponder for
a nu-type ranging system
[NASA-CASE-NFO-11707] c07 N73-25161

HORST, W. W.
A logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c52 N76-27839

BUSAIN-ABIDI, A. S.
Optical data processing using paraboloidal

mirror segments
 [NASA-CASE-GSC-11296-1] c23 N73-30666
 BUSCHKE, E. G., JR.
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[NASA-CASE-MFS-20482] c15 N72-22492

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[NASA-CASE-NFO-13131-1] c36 N75-19652
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films
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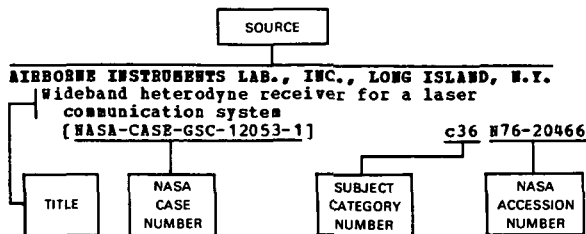
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Section 2

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Trajectory-correction propulsion system Patent
[NASA-CASE-XNF-01104] c28 N70-39931
Electrically-operated rotary shutter Patent
[NASA-CASE-XNF-00637] c14 N70-40273
Zero gravity starting means for liquid
propellant motors Patent
[NASA-CASE-XNP-01390] c28 N70-41275
Parallel motion suspension device Patent
[NASA-CASE-XNF-01567] c15 N70-41310
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c28 N70-41311
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c14 N70-41370
High pressure filter Patent
[NASA-CASE-XNP-00732] c28 N70-41447
Phase-locked loop with sideband rejecting
properties Patent
[NASA-CASE-XNF-02723] c07 N70-41680
Digital television camera control system Patent
[NASA-CASE-XNF-01472] c14 N70-41807

Antiflutter ball check valve Patent			
[NASA-CASE-XNP-01152]	c15	N70-41811	
Roll attitude star sensor system Patent			
[NASA-CASE-XNP-01307]	c21	N70-41856	
Process for preparing sterile solid propellants Patent			
[NASA-CASE-XNP-01749]	c27	N70-41897	
Scaloid construction Patent			
[NASA-CASE-XNP-01951]	c09	N70-41929	
Closed loop ranging system Patent			
[NASA-CASE-XNP-01501]	c21	N70-41930	
Printed circuit board with bellows rivet connection Patent			
[NASA-CASE-XNP-05082]	c15	N70-41960	
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent			
[NASA-CASE-XNP-00911]	c08	N70-41961	
Baseline stabilization system for ionization detector Patent			
[NASA-CASE-XNP-03128]	c10	N70-41991	
Single or joint amplitude distribution analyzer Patent			
[NASA-CASE-XNP-01383]	c09	N71-10659	
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent			
[NASA-CASE-XNP-03134]	c07	N71-10676	
Method for determining the state of charge of batteries by the use of tracers Patent			
[NASA-CASE-XNP-01464]	c03	N71-10728	
High pressure regulator valve Patent			
[NASA-CASE-XNP-00710]	c15	N71-10778	
Solar battery with interconnecting means for plural cells Patent			
[NASA-CASE-XNP-06506]	c03	N71-11050	
Sealed battery gas manifold construction Patent			
[NASA-CASE-XNP-03378]	c03	N71-11051	
Solar cell submodule Patent			
[NASA-CASE-XNP-05821]	c03	N71-11056	
Reflectometer for receiver input impedance match measurement Patent			
[NASA-CASE-XNP-10843]	c07	N71-11267	
Means for generating a sync signal in an FM communication system Patent			
[NASA-CASE-XNP-10830]	c07	N71-11281	
Multi-feed cone Cassegrain antenna Patent			
[NASA-CASE-XNP-10539]	c07	N71-11285	
Thermionic diode switch Patent			
[NASA-CASE-XNP-10404]	c03	N71-12255	
Anti-backlash circuit for hydraulic drive system Patent			
[NASA-CASE-XNP-01020]	c03	N71-12260	
Binary number sorter Patent			
[NASA-CASE-XNP-10112]	c08	N71-12502	
Linear three-tap feedback shift register Patent			
[NASA-CASE-XNP-10351]	c08	N71-12503	
Binary sequence detector Patent			
[NASA-CASE-XNP-05415]	c08	N71-12505	
Data compression system with a minimum time delay unit Patent			
[NASA-CASE-XNP-08832]	c08	N71-12506	
Magnetic counter Patent			
[NASA-CASE-XNP-08836]	c09	N71-12515	
Operational integrator Patent			
[NASA-CASE-XNP-10230]	c09	N71-12520	
Starting circuit for vapor lamps and the like Patent			
[NASA-CASE-XNP-01058]	c09	N71-12540	
Matched thermistors for microwave power meters Patent			
[NASA-CASE-XNP-10348]	c10	N71-12554	
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent			
[NASA-CASE-XNP-00384]	c09	N71-13530	
Automatic thermal switch Patent			
[NASA-CASE-XNP-03796]	c23	N71-15467	
Photoelectric energy spectrometer Patent			
[NASA-CASE-XNP-04161]	c14	N71-15599	
Anti-glare improvement for optical imaging systems Patent			
[NASA-CASE-XNP-10337]	c14	N71-15604	
Fluid flow restrictor Patent			
[NASA-CASE-XNP-10117]	c15	N71-15608	
High temperature lens construction Patent			
[NASA-CASE-XNP-04111]	c14	N71-15622	
Solder flux which leaves corrosion-resistant coating Patent			
[NASA-CASE-XNP-03459-2]	c18	N71-15688	
Intermittent type silica gel adsorption refrigerator Patent			
[NASA-CASE-XNP-00920]	c15	N71-15906	
Dual mode horn antenna Patent			
[NASA-CASE-XNP-01057]	c07	N71-15907	
Means for controlling rupture of shock tube diaphragm Patent			
[NASA-CASE-XNP-00731]	c11	N71-15960	
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent			
[NASA-CASE-XNP-01193]	c10	N71-16057	
Polarimeter for transient measurement Patent			
[NASA-CASE-XNP-08883]	c23	N71-16101	
Flexible composite membrane Patent			
[NASA-CASE-XNP-08837]	c18	N71-16210	
Mount for thermal control system Patent			
[NASA-CASE-XNP-10138]	c33	N71-16357	
Optical characteristics measuring apparatus Patent			
[NASA-CASE-XNP-08840]	c23	N71-16365	
Parallel plate viscometer Patent			
[NASA-CASE-XNP-09462]	c14	N71-17584	
Means and method of measuring viscoelastic strain Patent			
[NASA-CASE-XNP-01153]	c32	N71-17645	
Interferometer direction sensor Patent			
[NASA-CASE-XNP-10320]	c14	N71-17655	
Interferometer servo system Patent			
[NASA-CASE-XNP-10300]	c14	N71-17662	
Electrical spot terminal assembly Patent			
[NASA-CASE-XNP-10034]	c15	N71-17685	
Sealed separable connection Patent			
[NASA-CASE-XNP-10064]	c15	N71-17693	
Incremental motion drive system Patent			
[NASA-CASE-XNP-08897]	c15	N71-17694	
Macrobalance including crystal oscillators for measuring contaminants in a gas system Patent			
[NASA-CASE-XNP-10144]	c14	N71-17701	
Apparatus and method for protecting a photographic device Patent			
[NASA-CASE-XNP-10174]	c14	N71-18465	
Ranging system Patent			
[NASA-CASE-XNP-10066]	c09	N71-18598	
High impact pressure regulator Patent			
[NASA-CASE-XNP-10175]	c14	N71-18625	
Magnetic core current steering commutator Patent			
[NASA-CASE-XNP-10201]	c08	N71-18694	
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent			
[NASA-CASE-XNP-10373]	c03	N71-18698	
A dc-coupled noninverting one-shot Patent			
[NASA-CASE-XNP-09450]	c10	N71-18723	
Automatic fault correction system for parallel signal channels Patent			
[NASA-CASE-XNP-03263]	c09	N71-18843	
Data compression processor Patent			
[NASA-CASE-XNP-10068]	c08	N71-19288	
Tape guidance system and apparatus for the provision thereof Patent			
[NASA-CASE-XNP-09453]	c08	N71-19420	
High voltage transistor circuit Patent			
[NASA-CASE-XNP-06937]	c09	N71-19516	
Solar cell matrix Patent			
[NASA-CASE-XNP-10821]	c03	N71-19545	
Electrical switching device Patent			
[NASA-CASE-XNP-10037]	c09	N71-19610	
Drift compensation circuit for analog to digital converter Patent			
[NASA-CASE-XNP-04780]	c08	N71-19687	
Roll-up solar array Patent			
[NASA-CASE-XNP-10188]	c03	N71-20273	
Method and device for determining battery state of charge Patent			
[NASA-CASE-XNP-10194]	c03	N71-20407	
Soil particles separator, collector and viewer Patent			
[NASA-CASE-XNP-09770]	c15	N71-20440	
Transmission line thermal short Patent			
[NASA-CASE-XNP-09775]	c09	N71-20445	
Synchronous servo loop control system Patent			
[NASA-CASE-XNP-03744]	c10	N71-20448	
Processing for producing a sterilized instrument Patent			
[NASA-CASE-XNP-09763]	c14	N71-20461	
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent			
[NASA-CASE-XNP-05254]	c07	N71-20791	

Elimination of frequency shift in a multiplex communication system Patent		Detenting servomotor Patent	
[NASA-CASE-XNP-01306]	c07 N71-20814	[NASA-CASE-XNP-06936]	c15 N71-24695
High power-high voltage waterload Patent		Reversible motion drive system Patent	
[NASA-CASE-XNP-05381]	c09 N71-20842	[NASA-CASE-NFO-10173]	c15 N71-24696
Coaxial cable connector Patent		Decoder system Patent	
[NASA-CASE-XNP-04732]	c09 N71-20851	[NASA-CASE-NFO-10118]	c07 N71-24741
Soldering with solder flux which leaves corrosion resistant coating Patent		Television signal processing system Patent	
[NASA-CASE-XNP-03459]	c15 N71-21078	[NASA-CASE-NFO-10140]	c07 N71-24742
Miniature stress transducer Patent		Switching circuit Patent	
[NASA-CASE-XNP-02983]	c14 N71-21091	[NASA-CASE-XNP-06505]	c10 N71-24799
Holder for crystal resonators Patent		Magnetic power switch Patent	
[NASA-CASE-XNP-03637]	c15 N71-21311	[NASA-CASE-NFO-10242]	c09 N71-24803
Correlator function apparatus Patent		Remodulator filter Patent	
[NASA-CASE-XNP-00746]	c07 N71-21476	[NASA-CASE-NFO-10198]	c09 N71-24806
Split nut separation system Patent		Broadband microwave waveguide window Patent	
[NASA-CASE-XNP-06914]	c15 N71-21489	[NASA-CASE-XNP-08880]	c09 N71-24808
Light position locating system Patent		Cavity radiometer Patent	
[NASA-CASE-XNP-01059]	c23 N71-21821	[NASA-CASE-XNP-08961]	c14 N71-24809
Electron bombardment ion engine Patent		High-gain, broadband traveling wave maser Patent	
[NASA-CASE-XNP-04124]	c28 N71-21822	[NASA-CASE-NFO-10548]	c16 N71-24831
Data compressor Patent		Fluid containers and resealable septum therefor Patent	
[NASA-CASE-XNP-04067]	c08 N71-22707	[NASA-CASE-NFO-10123]	c15 N71-24835
Error correcting method and apparatus Patent		Temperature telemetric transmitter Patent	
[NASA-CASE-XNP-02748]	c08 N71-22749	[NASA-CASE-NFO-10649]	c07 N71-24840
Counter and shift register Patent		Tuning arrangement for an electron discharge device or the like Patent	
[NASA-CASE-XNP-01753]	c08 N71-22897	[NASA-CASE-XNP-09771]	c09 N71-24841
Friction measuring apparatus Patent		Noise limiter Patent	
[NASA-CASE-XNP-08680]	c14 N71-22995	[NASA-CASE-NFO-10169]	c10 N71-24844
Hybrid lubrication system and bearing Patent		Noninterruptable digital counting system Patent	
[NASA-CASE-XNP-01641]	c15 N71-22997	[NASA-CASE-XNP-09759]	c08 N71-24891
Filler valve Patent		Drive circuit for minimizing power consumption in inductive load Patent	
[NASA-CASE-XNP-01747]	c15 N71-23024	[NASA-CASE-NFO-10716]	c09 N71-24892
Refrigeration apparatus Patent		Space simulator Patent	
[NASA-CASE-XNP-06677]	c15 N71-23025	[NASA-CASE-NFO-10141]	c11 N71-24964
Reduced bandwidth video communication system utilizing sampling techniques Patent		Process for reducing secondary electron emission Patent	
[NASA-CASE-XNP-02791]	c07 N71-23026	[NASA-CASE-XNP-09469]	c24 N71-25555
Model launcher for wind tunnels Patent		Minimal logic block encoder Patent	
[NASA-CASE-XNP-03578]	c11 N71-23030	[NASA-CASE-NFO-10595]	c10 N71-25917
Drive circuit utilizing two cores Patent		Novel polycarboxylic prepolymeric materials and polymers thereof Patent	
[NASA-CASE-XNP-01318]	c10 N71-23033	[NASA-CASE-NFO-10596]	c06 N71-25929
Solar vane actuator Patent		Current steering switch Patent	
[NASA-CASE-XNP-05535]	c14 N71-23040	[NASA-CASE-XNP-08567]	c09 N71-26000
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent		Dual polarity full wave dc motor drive Patent	
[NASA-CASE-XNP-01056]	c14 N71-23041	[NASA-CASE-XNP-07477]	c09 N71-26092
Connector internal force gauge Patent		High impact antenna Patent	
[NASA-CASE-XNP-03918]	c14 N71-23087	[NASA-CASE-NFO-10231]	c07 N71-26101
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent		Video communication system and apparatus Patent	
[NASA-CASE-XNP-02140]	c09 N71-23097	[NASA-CASE-XNP-06611]	c07 N71-26102
Method of resolving clock synchronization error and means therefor Patent		Parallel generation of the check bits of a PN sequence Patent	
[NASA-CASE-XNP-08875]	c10 N71-23099	[NASA-CASE-XNP-04623]	c10 N71-26103
Impact testing machine Patent		Phase multiplying electronic scanning system Patent	
[NASA-CASE-XNP-04817]	c14 N71-23225	[NASA-CASE-NFO-10302]	c10 N71-26142
Zeta potential flowmeter Patent		Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent	
[NASA-CASE-XNP-06509]	c14 N71-23226	[NASA-CASE-NFO-10625]	c09 N71-26182
Comparator for the comparison of two binary numbers Patent		Fluid phase analyzer Patent	
[NASA-CASE-XNP-04819]	c08 N71-23295	[NASA-CASE-NFO-10691]	c14 N71-26199
Decontamination of petroleum products Patent		Variable frequency nuclear magnetic resonance spectrometer Patent	
[NASA-CASE-XNP-03835]	c06 N71-23499	[NASA-CASE-XNP-09830]	c14 N71-26266
Dicyanoacetylene polymers Patent		Time synchronization system utilizing moon reflected coded signals Patent	
[NASA-CASE-XNP-03250]	c06 N71-23500	[NASA-CASE-NFO-10143]	c10 N71-26326
Indexing microwave switch Patent		Broadband stable power multiplier Patent	
[NASA-CASE-XNP-06507]	c09 N71-23548	[NASA-CASE-XNP-10854]	c10 N71-26331
Millimeter wave radiometer for radio astronomy Patent		Cascaded complementary pair broadband transistor amplifiers Patent	
[NASA-CASE-XNP-09832]	c30 N71-23723	[NASA-CASE-NFO-10003]	c10 N71-26415
Radiant energy intensity measurement system Patent		Digital memory in which the driving of each word location is controlled by a switch core Patent	
[NASA-CASE-XNP-06510]	c14 N71-23797	[NASA-CASE-XNP-01466]	c10 N71-26434
High speed phase detector Patent		Conically shaped cavity radiometer with a dual purpose cone winding Patent	
[NASA-CASE-XNP-01306-2]	c09 N71-24596	[NASA-CASE-XNP-09701]	c14 N71-26475
Apparatus for testing polymeric materials Patent		Analog signal integration and reconstruction system Patent	
[NASA-CASE-XNP-09699]	c06 N71-24607	[NASA-CASE-NFO-10344]	c10 N71-26544
Digital synchronizer Patent		Rapid sync acquisition system Patent	
[NASA-CASE-NFO-10851]	c07 N71-24613	[NASA-CASE-NFO-10214]	c10 N71-26577
Signal processing apparatus for multiplex transmission Patent		Cryogenic cooling system Patent	
[NASA-CASE-XNP-01388]	c07 N71-24622	[NASA-CASE-NFO-10467]	c23 N71-26654
Self-testing and repairing computer Patent			
[NASA-CASE-NFO-10567]	c08 N71-24633		
Serial digital decoder Patent			
[NASA-CASE-NFO-10150]	c08 N71-24650		

Vacuum evaporator with electromagnetic ion steering Patent		
[NASA-CASE-NFO-10331]	c09	N71-26701
Automated fluid chemical analyzer Patent		
[NASA-CASE-NXP-09451]	c06	N71-26754
Material handling device Patent		
[NASA-CASE-NXP-09770-3]	c11	N71-27036
Pressure seal Patent		
[NASA-CASE-NFO-10796]	c15	N71-27068
Multiducted electromagnetic pump Patent		
[NASA-CASE-NFO-10755]	c15	N71-27084
Peak acceleration limiter for vibrational tester Patent		
[NASA-CASE-NFO-10556]	c14	N71-27185
Thin film capacitive bolometer and temperature sensor Patent		
[NASA-CASE-NFO-10607]	c09	N71-27232
Black body cavity radiometer Patent		
[NASA-CASE-NFO-10810]	c14	N71-27323
Video signal enhancement system with dynamic range compression and modulation index expansion Patent		
[NASA-CASE-NFO-10343]	c07	N71-27341
Force-balanced, throttle valve Patent		
[NASA-CASE-NFO-10808]	c15	N71-27432
Cavity emitter for thermionic converter Patent		
[NASA-CASE-NFO-10412]	c09	N71-28421
Frictionless universal joint Patent		
[NASA-CASE-NFO-10646]	c15	N71-28467
Epoxy-aziridine polymer product Patent		
[NASA-CASE-NFO-10701]	c06	N71-28620
Fluid impervious barrier including liquid metal alloy and method of making same Patent		
[NASA-CASE-NXP-08881]	c17	N71-28747
Wind tunnel microphone structure Patent		
[NASA-CASE-NXP-00250]	c11	N71-28779
Trialkyl-dibaltantalum and niobium compounds Patent		
[NASA-CASE-NXP-04023]	c06	N71-28808
Digital memory sense amplifying means Patent		
[NASA-CASE-NXP-01012]	c08	N71-28925
Digital filter for reducing sampling jitter in digital control systems Patent		
[NASA-CASE-NFO-11088]	c08	N71-29034
Method and apparatus for aligning a laser beam projector Patent		
[NASA-CASE-NFO-11087]	c23	N71-29125
Rubber composition for use with hydrazine Patent Application		
[NASA-CASE-NFO-11433]	c18	N71-31140
Rotable accurate reflector system for telescopes Patent		
[NASA-CASE-NFO-10468]	c23	N71-33229
Encoder/decoder system for a rapidly synchronizable binary code Patent		
[NASA-CASE-NFO-10342]	c10	N71-33407
High power microwave power divider Patent		
[NASA-CASE-NFO-11031]	c07	N71-33606
A dc servosystem including an ac motor Patent		
[NASA-CASE-NFO-10700]	c07	N71-33613
Solar cell matrix		
[NASA-CASE-NFO-11190]	c03	N71-34044
Manually actuated heat pump		
[NASA-CASE-NFO-10677]	c05	N72-11084
Virtual wall slot circularly polarized planar array antenna		
[NASA-CASE-NFO-10301]	c07	N72-11148
System for controlling the operation of a variable signal device		
[NASA-CASE-NFO-11064]	c07	N72-11150
Method and apparatus for data compression by a decreasing slope threshold test		
[NASA-CASE-NFO-10769]	c08	N72-11171
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test		
[NASA-CASE-NFO-10778]	c14	N72-11364
Vibration isolation system using compression springs		
[NASA-CASE-NFO-11012]	c15	N72-11391
Feed system for an ion thruster		
[NASA-CASE-NFO-10737]	c28	N72-11709
Thermostatic actuator		
[NASA-CASE-NFO-10637]	c15	N72-12409
High voltage transistor amplifier with constant current load		
[NASA-CASE-NFO-11023]	c09	N72-17155
Reference voltage switching unit		
[NASA-CASE-NFO-11253]	c09	N72-17157
Valving device for automatic refilling in cryogenic liquid systems		
[NASA-CASE-NFO-11177]	c15	N72-17453
Expandable support means		
[NASA-CASE-NFO-11059]	c15	N72-17454
Breakaway connector		
[NASA-CASE-NFO-11140]	c15	N72-17455
Modular encoder		
[NASA-CASE-NFO-10629]	c08	N72-18184
Transition tracking bit synchronization system		
[NASA-CASE-NFO-10844]	c07	N72-20140
Data compression system		
[NASA-CASE-NFO-11243]	c07	N72-20154
Digital quasi-exponential function generator		
[NASA-CASE-NFO-11130]	c08	N72-20176
Method and apparatus for high resolution spectral analysis		
[NASA-CASE-NFO-10748]	c08	N72-20177
Flow rate switch		
[NASA-CASE-NFO-10722]	c09	N72-20199
Electrical connector		
[NASA-CASE-NFO-10694]	c09	N72-20200
Wide band doubler and sine wave quadrature generator		
[NASA-CASE-NFO-11133]	c10	N72-20223
Signal phase estimator		
[NASA-CASE-NFO-11203]	c10	N72-20224
Optimal control system for an electric motor driven vehicle		
[NASA-CASE-NFO-11210]	c11	N72-20244
Impact energy absorbing system utilizing fractureable material		
[NASA-CASE-NFO-10671]	c15	N72-20443
Torsional disconnect unit		
[NASA-CASE-NFO-10704]	c15	N72-20445
Solid propellant rocket motor		
[NASA-CASE-NXP-03282]	c28	N72-20758
Shell side liquid metal boiler		
[NASA-CASE-NFO-10831]	c33	N72-20915
Method and apparatus for mapping planets		
[NASA-CASE-NFO-11001]	c07	N72-21118
Current steering commutator		
[NASA-CASE-NFO-10743]	c08	N72-21199
Automated equipotential plotter		
[NASA-CASE-NFO-11134]	c09	N72-21246
Pressure transducer		
[NASA-CASE-NFO-10832]	c14	N72-21405
Positioning mechanism		
[NASA-CASE-NFO-10679]	c15	N72-21462
Solid state matrices		
[NASA-CASE-NFO-10591]	c03	N72-22041
Solar cell panels with light transmitting plate		
[NASA-CASE-NFO-10747]	c03	N72-22042
Data multiplexer using tree switching configuration		
[NASA-CASE-NFO-11333]	c08	N72-22162
System for quantizing graphic displays		
[NASA-CASE-NFO-10745]	c08	N72-22164
Digital function generator		
[NASA-CASE-NFO-11104]	c08	N72-22165
Analog-to-digital converter analyzing system		
[NASA-CASE-NFO-10560]	c08	N72-22166
Feedback shift register with states decomposed into cycles of equal length		
[NASA-CASE-NFO-11082]	c08	N72-22167
Self-obturator, gas operated launcher		
[NASA-CASE-NFO-11013]	c11	N72-22247
Optical binocular scanning apparatus		
[NASA-CASE-NFO-11002]	c14	N72-22441
Ionene membrane separator		
[NASA-CASE-NFO-11091]	c18	N72-22567
Deployable solar cell array		
[NASA-CASE-NFO-10883]	c31	N72-22874
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation		
[NASA-CASE-NFO-11388]	c03	N72-23048
Optical frequency waveguide and transmission system		
[NASA-CASE-NQN-10541-3]	c23	N72-23695
Bipropellant injector		
[NASA-CASE-NXP-09461]	c28	N72-23809
Solid propellant rocket motor nozzle		
[NASA-CASE-NFO-11458]	c28	N72-23810
Analysis of hydrogen-deuterium mixtures		
[NASA-CASE-NFO-11322]	c06	N72-25146
Flexible computer accessed telemetry		
[NASA-CASE-NFO-11358]	c07	N72-25172

Multi-purpose antenna employing dish reflector with plural coaxial horn feeds [NASA-CASE-NFO-11264]	c07 N72-25174	Electrolytic gas operated actuator [NASA-CASI-NFO-11369]	c15 N73-13467
Communications link for computers [NASA-CASI-NFO-11161]	c08 N72-25207	Dual purpose momentum wheels for spacecraft with magnetic recording [NASA-CASE-NFO-11481]	c21 N73-13644
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier [NASA-CASE-NFO-11338]	c08 N72-25208	Multiple reflection conical microwave antenna [NASA-CASE-NFO-11661]	c07 N73-14130
Binary coded sequential acquisition ranging system [NASA-CASI-NFO-11194]	c08 N72-25209	Cyclically operable optical shutter [NASA-CASE-NFO-10758]	c14 N73-14427
MCD 2 sequential function generator for multibit binary sequence [NASA-CASE-NFO-10636]	c08 N72-25210	Heat detection and compositions and devices therefor [NASA-CASE-NFO-10764-1]	c14 N73-14428
Digital video display system using cathode ray tube [NASA-CASI-NFO-11342]	c09 N72-25248	Parallel-plate viscometer with double diaphragm suspension [NASA-CASE-NFO-11387]	c14 N73-14429
Inverter oscillator with voltage feedback [NASA-CASE-NFO-10760]	c09 N72-25254	Rotary actuator [NASA-CASE-NFO-10680]	c31 N73-14855
Thermal motor [NASA-CASE-NFO-11283]	c09 N72-25260	Magnetically actuated tuning method for Gunn oscillators [NASA-CASE-NFO-12106]	c09 N73-15235
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Thin film temperature sensor and method of making same [NASA-CASI-NFO-11775]	c26 N72-28761	Two carrier communication system with single transmitter [NASA-CASE-NFO-11548]	c07 N73-26118
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Singly-curved reflector for use in high-gain antennas [NASA-CASE-NFO-11361]	c07 N72-32169	Counting digital filters [NASA-CASE-NFO-11821-1]	c08 N73-26175
Digital slope threshold data compressor [NASA-CASE-NFO-11630]	c08 N72-33172	Automated attendance accounting system [NASA-CASE-NFO-11456]	c08 N73-26176
Continuously variable voltage controlled phase shifter [NASA-CASE-NFO-11129]	c09 N72-33204	Low phase noise digital frequency divider [NASA-CASE-NFO-11569]	c10 N73-26229
Pseudonoise sequence generators with three tap linear feedback shift registers [NASA-CASE-NFO-11406]	c08 N73-12175	Vehicle for use in planetary exploration [NASA-CASE-NFO-11366]	c11 N73-26238
Versatile arithmetic unit for high speed sequential decoder [NASA-CASE-NFO-11371]	c08 N73-12177	Temperature control system with a pulse width modulated bridge [NASA-CASE-NFO-11304]	c14 N73-26430
Dual frequency microwave reflex feed [NASA-CASE-NFO-13091-1]	c09 N73-12214	Disconnect unit [NASA-CASE-NFO-11330]	c33 N73-26958
Audio system with means for reducing noise effects [NASA-CASE-NFO-11631]	c10 N73-12244	Filter for third order phase locked loops [NASA-CASE-NFO-11941-1]	c10 N73-27171
Interferometer-polarimeter [NASA-CASE-NFO-11239]	c14 N73-12446	Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier [NASA-CASE-NFO-11593-1]	c07 N73-28014
Irradiance measuring device [NASA-CASE-NFO-11493]	c14 N73-12447	Analog-to-digital converter [NASA-CASE-NFO-00477]	c08 N73-28045
Program for computer aided reliability estimation [NASA-CASE-NFO-13086-1]	c15 N73-12495	Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator [NASA-CASE-NFO-03623]	c09 N73-28084
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system [NASA-CASE-NFO-11302-1]	c07 N73-13149	Apparatus and method for measuring the Seebeck coefficient and resistivity of materials [NASA-CASE-NFO-11749]	c14 N73-28486
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards [NASA-CASE-NFO-11418-1]	c14 N73-13420	Dual purpose optical instrument capable of simultaneously acting as spectrometer and	
Gas flow control device [NASA-CASE-NFO-11479]	c15 N73-13462		

diffractionmeter			
[NASA-CASE-XNP-05231]	c14	N73-28491	
Continuous magnetic flux pump			
[NASA-CASE-XNF-01187]	c15	N73-28516	
Preparation of alkali metal dispersions			
[NASA-CASE-XNP-08876]	c17	N73-28573	
Superconductive magnetic-field-trapping device			
[NASA-CASE-XNP-01185]	c26	N73-28710	
Automatic carrier acquisition system			
[NASA-CASE-NFO-11628-1]	c07	N73-30113	
Perofluidic sclenoid			
[NASA-CASE-NFO-11738-1]	c09	N73-30185	
Silent emergency alarm system for schools and the like			
[NASA-CASE-NFO-11307-1]	c10	N73-30205	
RF-source resistance meters			
[NASA-CASE-NFO-11291-1]	c14	N73-30388	
Event sequence detector			
[NASA-CASE-NFO-11703-1]	c10	N73-32144	
Scal penetrometer			
[NASA-CASE-XNF-05530]	c14	N73-32321	
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions			
[NASA-CASE-XNF-04231]	c14	N73-32325	
Magnetic-flux pump			
[NASA-CASE-XNP-01188]	c15	N73-32361	
Burrowing apparatus			
[NASA-CASE-XNP-07169]	c15	N73-32362	
Electrostatically controlled heat shutter			
[NASA-CASE-NFO-11942-1]	c33	N73-32818	
Method and apparatus for a single channel digital communications system			
[NASA-CASE-NFO-11302-2]	c32	N74-10132	
Controlled oscillator system with a time dependent output frequency			
[NASA-CASE-NFO-11962-1]	c33	N74-10194	
Low loss dichroic plate			
[NASA-CASE-NFO-13171-1]	c32	N74-11000	
Image data rate converter having a drum with a fixed head and a rotatable head			
[NASA-CASE-NFO-11659-1]	c35	N74-11283	
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver			
[NASA-CASE-NFO-11919-1]	c35	N74-11284	
Digital second-order phase-locked loop			
[NASA-CASE-NFO-11905-1]	c33	N74-12887	
Automatic vehicle location system			
[NASA-CASE-NFO-11850-1]	c32	N74-12912	
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control			
[NASA-CASE-NFO-11317-2]	c36	N74-13205	
Use of thin film light detector			
[NASA-CASE-NFO-11432-2]	c35	N74-15090	
Temperature compensated digital inertial sensor			
[NASA-CASE-NFO-13044-1]	c35	N74-15094	
Compact hydrogenator			
[NASA-CASE-NFO-11682-1]	c35	N74-15127	
Short range laser obstacle detector			
[NASA-CASE-NFO-11856-1]	c36	N74-15145	
System for stabilizing cable phase delay utilizing a coaxial cable under pressure			
[NASA-CASE-NFO-13138-1]	c33	N74-17927	
Storage battery comprising negative plates of a wedge shaped configuration			
[NASA-CASE-NFO-11806-1]	c44	N74-19693	
Gated compressor, distortionless signal limiter			
[NASA-CASE-NFO-11820-1]	c32	N74-19788	
Apparatus for scanning the surface of a cylindrical body			
[NASA-CASE-NFO-11861-1]	c36	N74-20009	
Decision feedback loop for tracking a polyphase modulated carrier			
[NASA-CASE-NFO-13103-1]	c32	N74-20811	
Optically actuated two position mechanical mover			
[NASA-CASE-NFO-13105-1]	c37	N74-21060	
Thin film gauge			
[NASA-CASE-NFO-10617-1]	c35	N74-22095	
High isolation RF signal selection switches			
[NASA-CASE-NFO-13081-1]	c33	N74-22814	
Single reflector interference spectrometer and drive system therefor			
[NASA-CASE-NFO-11952-1]	c35	N74-23040	
Scanning nozzle plating system			
[NASA-CASE-NFO-11758-1]	c31	N74-23065	
Rock sampling			
[NASA-CASE-XNP-10007-1]	c46	N74-23068	
Rock sampling			
[NASA-CASE-XNF-09755]	c46	N74-23069	
Miniature multichannel biotelemetry system			
[NASA-CASE-NFO-13065-1]	c52	N74-26625	
Dispensing targets for ion beam particle generators			
[NASA-CASE-NFO-13112-1]	c73	N74-26767	
Optically detonated explosive device			
[NASA-CASE-NFO-11743-1]	c28	N74-27425	
High voltage, high current Schottky barrier solar cell			
[NASA-CASE-NFO-13482-1]	c44	N74-30448	
Coherent receiver employing nonlinear coherence detection for carrier tracking			
[NASA-CASE-NFO-11921-1]	c32	N74-30523	
Digital servo control of random sound test excitation			
[NASA-CASE-NFO-11623-1]	c71	N74-31148	
Apparatus for forming drive belts			
[NASA-CASE-NFO-13205-1]	c31	N74-32917	
Tool for use in lifting pin supported objects			
[NASA-CASE-NFO-13157-1]	c37	N74-32918	
Preparing oxidizer coated metal fuel particles			
[NASA-CASE-NFO-11975-1]	c28	N74-33209	
Geneva mechanism			
[NASA-CASE-NFO-13281-1]	c37	N75-13266	
Method of producing a storage bulb for an atomic hydrogen maser			
[NASA-CASE-NFO-13050-1]	c36	N75-15029	
Combined pressure regulator and shutoff valve			
[NASA-CASE-NFO-13201-1]	c37	N75-15050	
Simultaneous acquisition of tracking data from two stations			
[NASA-CASE-NFO-13292-1]	c34	N75-15854	
Soft X-ray laser using crystal channels as distributed feedback cavities			
[NASA-CASE-NFO-13532-1]	c36	N75-15973	
Shock absorbing mount for electrical components			
[NASA-CASE-NFO-13253-1]	c37	N75-18573	
System for generating timing and control signals			
[NASA-CASE-NFO-13125-1]	c33	N75-19519	
Motor run-up system			
[NASA-CASE-NFO-13374-1]	c33	N75-19524	
Frequency scanning particle size spectrometer			
[NASA-CASE-NFO-13606-1]	c35	N75-19627	
Particle size spectrometer and refractometer			
[NASA-CASE-NFO-13614-1]	c35	N75-19628	
Deep trap, laser activated image converting system			
[NASA-CASE-NFO-13131-1]	c36	N75-19652	
Multitarget sequential sputtering apparatus			
[NASA-CASE-NFO-13345-1]	c37	N75-19684	
Method and apparatus for providing a servodrive signal in a high speed stepping interferometer			
[NASA-CASE-NFO-13569-1]	c35	N75-21600	
Motion restraining device			
[NASA-CASE-NFO-13619-1]	c37	N75-22748	
Wide angle sun sensor			
[NASA-CASE-NFO-13327-1]	c35	N75-23910	
Material suspension within an acoustically excited resonant chamber			
[NASA-CASE-NFO-13263-1]	c12	N75-24774	
Heat operated cryogenic electrical generator			
[NASA-CASE-NFO-13303-1]	c20	N75-24637	
System for interference signal nulling by polarization-adjustment			
[NASA-CASE-NFO-13140-1]	c32	N75-24982	
Heat detection and compositions and devices therefor			
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Servo-controlled intravital microscope system			
[NASA-CASE-NFO-13214-1]	c35	N75-25123	
Vehicle locating system utilizing AM broadcasting station carriers			
[NASA-CASE-NFO-13217-1]	c32	N75-26194	
Asynchronous, multiplexing, single line transmission and recovery data system			
[NASA-CASE-NFO-13321-1]	c32	N75-26195	
Fluorescence detector for monitoring atmospheric pollutants			
[NASA-CASE-NFO-13231-1]	c45	N75-27585	
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus			
[NASA-CASE-NFO-13386-1]	c54	N75-27758	
Heat sterilizable patient ventilator			
[NASA-CASE-NFO-13313-1]	c54	N75-27761	
Low cost solar energy collection system			
[NASA-CASE-NFO-13579-1]	c44	N75-28519	
Refrigerated coaxial coupling			
[NASA-CASE-NFO-13504-1]	c33	N75-30430	

Electric power generation system directory from laser power	[NASA-CASE-NFO-13308-1]	c36 N75-30524	Shared memory for a fault-tolerant computer	[NASA-CASE-NFO-13139-1]	c60 N76-21914
Subminiature insertable force transducer	[NASA-CASE-NFO-13423-1]	c33 N75-31329	Wind sensor	[NASA-CASE-NFO-13462-1]	c35 N76-24524
Symmetrical odd-modulus frequency divider	[NASA-CASE-NFO-13426-1]	c33 N75-31330	Fiber distributed feedback laser	[NASA-CASE-NFO-13531-1]	c36 N76-24553
Stored charge transistor	[NASA-CASE-NFO-11156-2]	c33 N75-31331	Graphite reinforced bone cement	[NASA-CASE-NFO-13764-1]	c24 N76-26281
Doped Josephson tunneling junction for use in a sensitive IR detector	[NASA-CASE-NFO-13348-1]	c33 N75-31332	Method and apparatus for automatic load sharing among paralleled converters	[NASA-CASE-NFO-13832-1]	c33 N76-26393
Acoustically controlled distributed feedback laser	[NASA-CASE-NFO-13175-1]	c36 N75-31427	Photoelectron spectrometer with means for stabilizing sample surface potential	[NASA-CASE-NFO-13772-1]	c35 N76-26450
Inert gas metallic vapor laser	[NASA-CASE-NFO-13449-1]	c36 N75-32441	Portable, linear-focused solar thermal energy collecting system	[NASA-CASE-NFO-13734-1]	c44 N76-26690
High temperature resistant cermet and ceramic composites	[NASA-CASE-NFO-13690-1]	c27 N76-13294	RF beam center location method and apparatus for power transmission system	[NASA-CASE-NFO-13821-1]	c44 N76-26692
Helium refrigerator	[NASA-CASE-NFO-13435-1]	c31 N76-14284	Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback	[NASA-CASE-NFO-13346-1]	c36 N76-29575
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Strain gage mounting assembly	[NASA-CASE-NFO-13170-1]	c35 N76-14430	Hydrogen rich gas generator	[NASA-CASE-NFO-13342-2]	c44 N76-29700
Interferometer mirror tilt correcting system	[NASA-CASE-NFO-13687-1]	c35 N76-14433	Solar-powered pump	[NASA-CASE-NFO-13567-1]	c44 N76-29701
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles	[NASA-CASE-NFO-13756-1]	c35 N76-14434	Hydrogen rich gas generator	[NASA-CASE-NFO-13464-2]	c44 N76-29704
Thermostatically controlled non-tracking type solar energy concentrator	[NASA-CASE-NFO-13497-1]	c44 N76-14602	Myocardium wall thickness transducer and measuring method	[NASA-CASE-NFO-13644-1]	c52 N76-29895
Multi-computer multiple data path hardware exchange system	[NASA-CASE-NFO-13422-1]	c60 N76-14818	Catheter tip force transducer for cardiovascular research	[NASA-CASE-NFO-13643-1]	c52 N76-29896
Cermet composition and method of fabrication	[NASA-CASE-NFO-13120-1]	c27 N76-15311	Real time analysis of voiced sounds	[NASA-CASE-NFO-13465-1]	c32 N76-31372
Dichroic plate	[NASA-CASE-NFO-13506-1]	c35 N76-15435	Ultra stable frequency distribution system	[NASA-CASE-NFO-13836-1]	c32 N76-31373
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Magnetometer using superconducting rotating body	[NASA-CASE-NFO-13388-1]	c35 N76-16390	Reflected-wave maser	[NASA-CASE-NFO-13490-1]	c36 N76-31512
Scan converting video tape recorder	[NASA-CASE-NFO-10166-2]	c35 N76-16391	Independent gain and bandwidth control of a traveling wave maser	[NASA-CASE-NFO-13801-1]	c36 N76-31514
Hydrogen rich gas generator	[NASA-CASE-NFO-13342-1]	c37 N76-16446	Method of making hollow elastomeric bodies	[NASA-CASE-NFO-13535-1]	c37 N76-31524
A machine for use in scintillating fatigue life for a plurality of elastomeric specimens	[NASA-CASE-NFO-13731-1]	c39 N76-17427	Solar cell grid patterns	[NASA-CASE-NFO-13087-2]	c44 N76-31666
Automated system for identifying traces of organic chemical compounds in aqueous solutions	[NASA-CASE-NFO-13063-1]	c25 N76-18245	Furlable antenna	[NASA-CASE-NFO-13553-1]	c33 N76-32457
Analog to digital converter	[NASA-CASE-NFO-13385-1]	c33 N76-18345	Annular arc accelerator shock tube	[NASA-CASE-NFO-13528-1]	c09 N77-10071
Sampler of gas borne particles	[NASA-CASE-NFO-13396-1]	c35 N76-18401	Cryostat system for temperatures on the order of 2 deg K or less	[NASA-CASE-NFO-13459-1]	c31 N77-10229
Stark-effect modulation of CO2 laser with NH2D	[NASA-CASE-NFO-11945-1]	c36 N76-18427	The dc-to-dc converters employing staggered-phase power switches with two-loop control	[NASA-CASE-NFO-13512-1]	c33 N77-10428
Diffused waveguiding capillary tube with distributed feedback for a gas laser	[NASA-CASE-NFO-13544-1]	c36 N76-18428	Ion and electron detector for use in an ICR spectrometer	[NASA-CASE-NFO-13479-1]	c35 N77-10492
System for minimizing internal combustion engine pollution emission	[NASA-CASE-NFO-13402-1]	c37 N76-18457	Hydrogen-rich gas generator	[NASA-CASE-NFO-13560-1]	c44 N77-10636
Hydrogen-bicrine secondary battery	[NASA-CASE-NFO-13237-1]	c44 N76-18641	Thin conformal antenna array for microwave power conversion	[NASA-CASE-NFO-13886-1]	c32 N77-11269
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Zinc-halide battery with molten electrolyte	[NASA-CASE-NFO-11961-1]	c44 N76-18643	Hydrogen-fueled engine	[NASA-CASE-NFO-13763-1]	c37 N77-11398
Priority interrupt system	[NASA-CASE-NFO-13067-1]	c60 N76-18800	Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel	[NASA-CASE-NFO-13545-1]	c32 N77-12240
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Miniature muscle displacement transducer	[NASA-CASE-NFO-13519-1]	c33 N76-19338	High temperature oxidation resistant cermet composites	[NASA-CASE-NFO-13666-1]	c27 N77-13217
Zero torque gear head wrench	[NASA-CASE-NFO-13059-1]	c37 N76-20480	Frequency discriminator and phase detector circuit	[NASA-CASE-NFO-11515-1]	c33 N77-13315
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Indicator providing continuous indication of the presence of a specific pollutant in air	[NASA-CASE-NFO-13474-1]	c45 N76-21742			

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NFO-13663-1] c35 N77-14406

Thermocouple installation
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Method and apparatus for background signal reduction in cyto-acoustic absorption measurement
[NASA-CASE-NFO-13683-1] c35 N77-14411

Multistatic refrigeration system
[NASA-CASE-NFO-13839-1] c31 N77-15219

Electroexplosive device
[NASA-CASE-NFO-13858-1] c28 N77-17258

Surface roughness measuring system
[NASA-CASE-NFO-13862-1] c32 N77-17325

Swept group delay measurement
[NASA-CASE-NFO-13909-1] c33 N77-17358

Overload protection system for power inverter
[NASA-CASE-NFO-13872-1] c33 N77-17359

Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NFO-13823-1] c37 N77-17466

Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NFO-13847-2] c85 N77-17949

Nuclear thermionic converter
[NASA-CASE-NFO-13121-1] c73 N77-18891

Passive intrusion detection system
[NASA-CASE-NFO-13804-1] c35 N77-19390

Charge transfer reaction laser with preionization means
[NASA-CASE-NFO-13945-1] c36 N77-19418

A non-tracking solar energy collector system
[NASA-CASE-NFO-13813-1] c44 N77-19579

Dual membrane, hollow fiber fuel cell
[NASA-CASE-NFO-13732-1] c44 N77-19581

Automated clinical system for chromosome analysis
[NASA-CASE-NFO-13913-1] c52 N77-19750

Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NFO-13753-1] c32 N77-20289

Solar energy collection system
[NASA-CASE-NFO-13579-2] c44 N77-20565

Low cost solar energy collection system
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Charge storage diode modulators and demodulators
[NASA-CASE-NFO-10189-1] c33 N77-21314

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NFO-11510-1] c33 N77-21315

Depressurization of arc lamps
[NASA-CASE-NFO-16790-1] c33 N77-21316

Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NFO-10711-1] c35 N77-21392

Cryogenic liquid sensor
[NASA-CASE-NFO-10619-1] c35 N77-21393

Uniform variable light source
[NASA-CASE-NFO-11429-1] c74 N77-21941

Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NFO-13867-1] c27 N77-22257

Arc control in compact arc lamps
[NASA-CASE-NFO-10870-1] c33 N77-22386

Adjustable chamfering tool
[NASA-CASE-NFO-10857-1] c37 N77-22478

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[NASA-CASE-NFO-10316-1] c37 N77-22479

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[NASA-CASE-NFO-13058-1] c37 N77-22480

Sun direction detection system
[NASA-CASE-NFO-13722-1] c74 N77-22951

Reflex feed system for dual-frequency antenna
[NASA-CASE-NFO-14022-1] c32 N77-24338

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NFO-13641-1] c32 N77-24340

Digital derodulator-correlator
[NASA-CASE-NFO-13982-1] c32 N77-24341

Selective image area control of X-ray film exposure density
[NASA-CASE-NFO-13808-1] c35 N77-24456

Stabilization of He2(a- Σ Sigman(+)) molecules in liquid helium by optical pumping for vacuum UV laser
[NASA-CASE-NFO-13993-1] c36 N77-24468

Double discharge metal vapor laser with metal halide as a lasing

[NASA-CASE-NFO-13448-2] c36 N77-24469

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[NASA-CASE-BQN-10876-1] c33 N76-27473

Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-BQN-10862-1] c44 N76-29699

Safety flywheel
[NASA-CASE-BQN-10888-1] c37 N77-22484

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. AMES RESEARCH CENTER, MOFFETT FIELD, CALIF.

Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c09 N69-21313

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c05 N69-21473

Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c14 N69-27423

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c14 N69-27486

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c14 N69-39896

Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c09 N69-39897

Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c09 N70-33182

Two-plane balance Patent
[NASA-CASE-XAC-00073] c14 N70-34813

Centrifuge mounted motion simulator Patent		Attitude controls for VTOL aircraft Patent	
[NASA-CASI-XAC-00399]	c11 N70-34815	[NASA-CASE-XAC-08972]	c02 N71-20570
Differential pressure cell Patent		Electric arc apparatus Patent	
[NASA-CASI-XAC-00042]	c14 N70-34816	[NASA-CASI-XAC-01677]	c09 N71-20816
High-temperature, high-pressure spherical segment valve Patent		Inertia diaphragm pressure transducer Patent	
[NASA-CASE-XAC-00074]	c15 N70-34817	[NASA-CASE-XAC-02981]	c14 N71-21072
Magnetically centered liquid column float Patent		Stirring apparatus for plural test tubes Patent	
[NASA-CASI-XAC-00030]	c14 N70-34820	[NASA-CASE-XAC-06956]	c15 N71-21177
Propeller blade loading control Patent		Exposure system for animals Patent	
[NASA-CASE-XAC-00139]	c02 N70-34856	[NASA-CASE-XAC-05333]	c11 N71-22875
Temperature compensated solid state differential amplifier Patent		Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent	
[NASA-CASE-XAC-00435]	c09 N70-35440	[NASA-CASE-XAC-02807]	c09 N71-23021
High speed low level electrical stepping switch Patent		Ball current measuring apparatus having a series resistor for temperature compensation Patent	
[NASA-CASI-XAC-00060]	c09 N70-39915	[NASA-CASE-XAC-01662]	c14 N71-23037
Analog-to-digital conversion system Patent		Transfer valve Patent	
[NASA-CASE-XAC-00404]	c08 N70-40125	[NASA-CASE-XAC-01158]	c15 N71-23051
Null-type vacuum microbalance Patent		Hard space suit Patent	
[NASA-CASE-XAC-00472]	c15 N70-40180	[NASA-CASE-XAC-07043]	c05 N71-23161
Thermo-protective device for balances Patent		Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent	
[NASA-CASE-XAC-00648]	c14 N70-40400	[NASA-CASE-XAC-05422]	c04 N71-23185
Three-axis controller Patent		Feedback integrator with grounded capacitor Patent	
[NASA-CASE-XAC-01404]	c05 N70-41581	[NASA-CASE-XAC-10607]	c10 N71-23669
Electric arc device for heating gases Patent		Floating two force component measuring device Patent	
[NASA-CASE-XAC-00319]	c25 N70-41628	[NASA-CASE-XAC-04885]	c14 N71-23790
Dynamic sensor Patent		Control device Patent	
[NASA-CASE-XAC-02877]	c14 N70-41681	[NASA-CASE-XAC-10019]	c15 N71-23809
Universal pilot restraint suit and body support therefor Patent		Means for suppressing or attenuating bending motion of elastic bodies Patent	
[NASA-CASE-XAC-00405]	c05 N70-41819	[NASA-CASE-XAC-05632]	c32 N71-23971
Proportional controller Patent		Device for measuring pressure Patent	
[NASA-CASE-XAC-03392]	c03 N70-41954	[NASA-CASE-XAC-04458]	c14 N71-24232
Force transducer Patent		Transducer circuit and catheter transducer Patent	
[NASA-CASE-XAC-01101]	c14 N70-41957	[NASA-CASE-ARC-10132-1]	c09 N71-24597
Electrode construction Patent		Skeletal stressing method and apparatus Patent	
[NASA-CASE-ARC-10043-1]	c05 N71-11193	[NASA-CASE-ARC-10100-1]	c05 N71-24738
Telemeter adaptable for implanting in an animal Patent		Modified polyurethane foams for fuel-fire Patent	
[NASA-CASE-XAC-05706]	c05 N71-12342	[NASA-CASE-ARC-10098-1]	c06 N71-24739
Gyrator type circuit Patent		Deep space monitor communication satellite system Patent	
[NASA-CASE-XAC-10608-1]	c09 N71-12517	[NASA-CASE-XAC-06029-1]	c31 N71-24813
Ultraviolet resonance lamp Patent		Laser fluid velocity detector Patent	
[NASA-CASI-ARC-10030]	c09 N71-12521	[NASA-CASE-XAC-10770-1]	c16 N71-24828
Differential temperature transducer Patent		Transient video signal recording with expanded playback Patent	
[NASA-CASE-XAC-00812]	c14 N71-15598	[NASA-CASE-ARC-10003-1]	c09 N71-25866
Multiple circuit switch apparatus with improved pivot actuator structure Patent		Thermally cycled magnetometer Patent	
[NASA-CASE-XAC-03777]	c10 N71-15909	[NASA-CASE-XAC-03740]	c14 N71-26135
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent		Optical machine tool alignment indicator Patent	
[NASA-CASE-XAC-08494]	c30 N71-15990	[NASA-CASE-XAC-09489-1]	c15 N71-26673
High efficiency multivibrator Patent		Energy limiter for hydraulic actuators Patent	
[NASA-CASE-XAC-00942]	c10 N71-16042	[NASA-CASE-ARC-10131-1]	c15 N71-27754
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent		Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent	
[NASA-CASE-XAC-05695]	c25 N71-16073	[NASA-CASE-ARC-10137-1]	c09 N71-28468
Flight craft Patent		Locomotion and restraint aid Patent	
[NASA-CASE-XAC-02058]	c02 N71-16087	[NASA-CASE-ARC-10153]	c05 N71-28619
Three-axis finger tip controller for switches Patent		Line following servosystem Patent	
[NASA-CASE-XAC-02405]	c09 N71-16089	[NASA-CASE-XAC-00001]	c15 N71-28952
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent		Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent	
[NASA-CASI-XAC-05506-1]	c24 N71-16095	[NASA-CASE-XAC-00048]	c02 N71-29128
Inertial reference apparatus Patent		Precision rectifier with FET switching means Patent	
[NASA-CASE-XAC-03107]	c23 N71-16098	[NASA-CASE-ARC-10101-1]	c09 N71-33109
Pastener apparatus Patent		Solar cell Patent	
[NASA-CASE-ARC-10140-1]	c15 N71-17653	[NASA-CASE-ARC-10050]	c03 N71-33409
Stabilization of gravity oriented satellites Patent		Phase shift circuit apparatus	
[NASA-CASE-XAC-01591]	c31 N71-17729	[NASA-CASE-ARC-10269-1]	c10 N72-16172
Microwave flaw detector Patent		High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level	
[NASA-CASE-ARC-10009-1]	c15 N71-17822	[NASA-CASE-ARC-10178-1]	c09 N72-17152
Hypervelocity gun Patent		Telemetry actuated switch	
[NASA-CASE-XAC-05902]	c11 N71-18578	[NASA-CASE-ARC-10105]	c09 N72-17153
Nonlinear analog-to-digital converter Patent		Active RC networks	
[NASA-CASE-XAC-04031]	c08 N71-18594	[NASA-CASE-ARC-10020]	c10 N72-17172
Demodulator system Patent		Apparatus for automatically stabilizing the attitude of a nonguided vehicle	
[NASA-CASE-XAC-04030]	c10 N71-19472	[NASA-CASE-ARC-10134]	c30 N72-17873
Phase quadrature-plural channel data transmission system Patent			
[NASA-CASE-XAC-06302]	c08 N71-19763		
Two force component measuring device Patent			
[NASA-CASE-XAC-04886-1]	c14 N71-20439		

Gas chromatograph injection system			Overvoltage protection network		
[NASA-CASE-ARC-10344-1]	c14	N72-21433	[NASA-CASE-ARC-10197-1]	c33	N74-17929
Method and apparatus for swept-frequency impedance measurements of welds			Ultrasonic biomedical measuring and recording apparatus		
[NASA-CASE-ARC-10176-1]	c15	N72-21464	[NASA-CASE-ARC-10597-1]	c52	N74-20726
Space suit having improved waist and torso movement			Ultraviolet and thermally stable polymer compositions		
[NASA-CASE-ARC-10275-1]	c05	N72-22092	[NASA-CASE-ARC-10592-1]	c27	N74-21156
RF controlled solid state switch			High speed shutter		
[NASA-CASE-ARC-10136-1]	c09	N72-22202	[NASA-CASE-ARC-10516-1]	c70	N74-21300
Wide range dynamic pressure sensor			Bio-isolated dc operational amplifier		
[NASA-CASE-ARC-10263-1]	c14	N72-22438	[NASA-CASE-ARC-10596-1]	c33	N74-21851
Method and apparatus for measuring the damping characteristics of a structure			Programmable physiological infusion		
[NASA-CASE-ARC-10154-1]	c14	N72-22440	[NASA-CASE-ARC-10447-1]	c52	N74-22771
Magnetic position detection method and apparatus			Chromato-fluorographic drug detector		
[NASA-CASE-ARC-10179-1]	c21	N72-22619	[NASA-CASE-ARC-10633-1]	c25	N74-26947
Fluidic proportional thruster system			Intumescent composition, foamed product prepared therewith and process for making same		
[NASA-CASE-ARC-10106-1]	c28	N72-22769	[NASA-CASE-ARC-10304-2]	c27	N74-27037
Thermoelectric radiometer utilizing polymer film			Photomultiplier circuit including means for rapidly reducing the sensitivity thereof		
[NASA-CASE-ARC-10138-1]	c14	N72-24477	[NASA-CASE-ARC-10593-1]	c33	N74-27682
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines			G-load measuring and indicator apparatus		
[NASA-CASE-ARC-10325]	c06	N72-25147	[NASA-CASE-ARC-10806]	c06	N74-27872
Stereoscopic television system and apparatus			Concentric differential gearing arrangement		
[NASA-CASE-ARC-10160-1]	c23	N72-27728	[NASA-CASE-ARC-10462-1]	c37	N74-27901
Metallic intrusion detector system			Measurement of plasma temperature and density using radiation absorption		
[NASA-CASE-ARC-10265-1]	c10	N72-28240	[NASA-CASE-ARC-10598-1]	c75	N74-30156
Apparatus for ionization analysis			Abating exhaust noises in jet engines		
[NASA-CASE-ARC-10017-1]	c14	N72-29464	[NASA-CASE-ARC-10712-1]	c07	N74-33218
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas			Solid medium thermal engine		
[NASA-CASE-ARC-10308-1]	c06	N72-31141	[NASA-CASE-ARC-10461-1]	c44	N74-33379
Two degree inverted flexure			Automated analysis of oxidative metabolites		
[NASA-CASE-ARC-10345-1]	c15	N73-12488	[NASA-CASE-ARC-10469-1]	c25	N75-12086
Intumescent paint containing nitrile rubber			Method of preparing water purification membranes		
[NASA-CASE-ARC-10196-1]	c18	N73-13562	[NASA-CASE-ARC-10643-1]	c25	N75-12087
Temperature compensated light source using a light emitting diode			Method of forming aperture plate for electron microscope		
[NASA-CASE-ARC-10467-1]	c09	N73-14214	[NASA-CASE-ARC-10448-2]	c74	N75-12732
Self-tuning bandpass filter			Integrated lift/drag controller for aircraft		
[NASA-CASE-ARC-10264-1]	c09	N73-20231	[NASA-CASE-ARC-10456-1]	c05	N75-12930
Micrometeoroid analyzer			Wind tunnel flow generation section		
[NASA-CASE-ARC-10443-1]	c14	N73-20477	[NASA-CASE-ARC-10710-1]	c09	N75-12969
Multiple pass remapping optical system			Water purification process		
[NASA-CASE-ARC-10194-1]	c23	N73-20741	[NASA-CASE-ARC-10643-2]	c51	N75-13506
Intruder detection system			Continuous Fourier transform method and apparatus		
[NASA-CASE-ARC-10097-2]	c07	N73-25160	[NASA-CASE-ARC-10466-1]	c60	N75-13539
Interferometric rotation sensor			Dual wavelength scanning Doppler velocimeter		
[NASA-CASE-ARC-10278-1]	c14	N73-25463	[NASA-CASE-ARC-10637-1]	c35	N75-16783
Dual-fuselage aircraft having yawable wing and horizontal stabilizer			Signal conditioning circuit apparatus		
[NASA-CASE-ARC-10470-1]	c02	N73-26005	[NASA-CASE-ARC-10348-1]	c33	N75-19518
Temperature controller for a fluid cooled garment			Diode-quad bridge circuit means		
[NASA-CASE-ARC-10599-1]	c05	N73-26071	[NASA-CASE-ARC-10364-3]	c33	N75-19520
Visual examination apparatus			Reversed cowl flap inlet thrust augmentor		
[NASA-CASE-ARC-10329-1]	c05	N73-26072	[NASA-CASE-ARC-10754-1]	c07	N75-24736
Intumescent composition, foamed product prepared therewith, and process for making same			Diode-quad bridge circuit means		
[NASA-CASE-ARC-10304-1]	c18	N73-26572	[NASA-CASE-ARC-10364-2]	c33	N75-25041
Infrared tunable laser			Rotary plant growth accelerating apparatus		
[NASA-CASE-ARC-10463-1]	c09	N73-32111	[NASA-CASE-ARC-10722-1]	c51	N75-25503
Low power electromagnetic flowmeter providing accurate zero set			Shoulder harness and lap belt restraint system		
[NASA-CASE-ARC-10362-1]	c14	N73-32326	[NASA-CASE-ARC-10519-2]	c05	N75-25915
Protection of moisture sensitive optical components			Gas chromatograph injection system		
[NASA-CASE-ARC-10749-1]	c23	N73-32542	[NASA-CASE-ARC-10344-2]	c35	N75-26334
Hand-held photomicroscope			Reference apparatus for medical ultrasonic transducer		
[NASA-CASE-ARC-10468-1]	c14	N73-33361	[NASA-CASE-ARC-10753-1]	c54	N75-27760
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector			Electric arc light source having undercut recessed anode		
[NASA-CASE-ARC-10444-1]	c16	N73-33397	[NASA-CASE-ARC-10266-1]	c33	N75-29318
Polyimide foam for the thermal insulation and fire protection			G-load measuring and indicator apparatus		
[NASA-CASE-ARC-10464-1]	c27	N74-12812	[NASA-CASE-ARC-10806-1]	c35	N75-29381
Flexible fire retardant polyisocyanate modified neoprene foam			NDIR gas analyzer based on absorption modulation ratios for known and unknown samples		
[NASA-CASE-ARC-10180-1]	c27	N74-12814	[NASA-CASE-ARC-10802-1]	c35	N75-30502
Diode-quad bridge circuit means			Diatomic infrared gasdynamic laser		
[NASA-CASE-ARC-10364-2(B)]	c33	N74-14941	[NASA-CASE-ARC-10370-1]	c36	N75-31426
Heater-mixer for stored fluids			Apparatus for measuring a sorbate dispersed in a fluid stream		
[NASA-CASE-ARC-10442-1]	c35	N74-15093	[NASA-CASE-ARC-10896-1]	c34	N75-32389
Bi-metallic fluid displacement apparatus			Pneumatic load compensating or controlling system		
[NASA-CASE-ARC-10441-1]	c35	N74-15126	[NASA-CASE-ARC-10907-1]	c37	N75-32465
Automatic real-time pair-feeding system for animals			Automatic fluid dispenser		
[NASA-CASE-ARC-10302-1]	c51	N74-15778	[NASA-CASE-ARC-10820-1]	c54	N75-32766
			Full color hybrid display for aircraft simulators		
			[NASA-CASE-ARC-10903-1]	c09	N76-10148
			Combined dual scatter, local oscillator laser Doppler velocimeter		
			[NASA-CASE-ARC-10642-1]	c36	N76-14447

Fiber modified polyurethane foam for ballistic protection			Electron microscope aperture system		
[NASA-CASE-ARC-10714-1]	c27	N76-15310	[NASA-CASE-ARC-10448-3]	c35	N77-14408
Transparent fire resistant polymeric structures			Liquid cooled brassiere and method of diagnosing malignant tumors therewith		
[NASA-CASE-ARC-10813-1]	c27	N76-16230	[NASA-CASE-ARC-11007-1]	c52	N77-14736
Noise suppressor for turbo fan jet engines			A walking boot assembly		
[NASA-CASE-ARC-10812-1]	c07	N76-18131	[NASA-CASE-ARC-11101-1]	c54	N77-14742
Modulated hydrogen ion flame detector			An improved cooling system for removing metabolic heat from an hermetically sealed spacesuit		
[NASA-CASE-ARC-10322-1]	c35	N76-18403	[NASA-CASE-ARC-11059-1]	c54	N77-14743
Electrical conductivity cell and method for fabricating the same			EKG and ultrasonoscope display		
[NASA-CASE-ARC-10810-1]	c33	N76-19339	[NASA-CASE-ARC-10994-2]	c52	N77-15619
Tread drum for animals			A miniature implantable ultrasonic echosonometer		
[NASA-CASE-ARC-10917-1]	c37	N76-20485	[NASA-CASE-ARC-11035-1]	c52	N77-15621
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector			Spacesuit mobility joints		
[NASA-CASE-ARC-10631-1]	c74	N76-20958	[NASA-CASE-ARC-11058-1]	c54	N77-15641
Trielectrode capacitive pressure transducer			Hingeless helicopter rotor with improved stability		
[NASA-CASE-ARC-10711-2]	c33	N76-21390	[NASA-CASE-ARC-10807-1]	c05	N77-17029
Nulling device for detection of trace gases by WDIR absorption			Process for preparing higher oxides of the alkali and alkaline earth metals		
[NASA-CASE-ARC-10760-1]	c25	N76-22323	[NASA-CASE-ARC-10992-1]	c25	N77-17178
Silica reusable surface insulation			Preparation of dielectric coatings of variable dielectric constant by plasma polymerization		
[NASA-CASE-ARC-10721-1]	c27	N76-22376	[NASA-CASE-ARC-10892-2]	c27	N77-17245
Optical alignment device			Contour detector and data acquisition system for the left ventricular outline		
[NASA-CASE-ARC-10932-1]	c74	N76-22993	[NASA-CASE-ARC-10985-1]	c52	N77-17701
Vehicle simulator binocular multiplanar visual display system			The engine air intake system		
[NASA-CASE-ARC-10808-1]	c09	N76-24280	[NASA-CASE-ARC-10761-1]	c07	N77-18154
Readout electrode assembly for measuring biological impedance			A reverse osmosis membrane of high urea rejection properties		
[NASA-CASE-ARC-10816-1]	c35	N76-24525	[NASA-CASE-ARC-10980-1]	c27	N77-18265
Schlieren system employing antiparallel reflector in the forward direction			Spring operated accelerator and constant force spring mechanism therefor		
[NASA-CASE-ARC-10971-1]	c09	N76-26224	[NASA-CASE-ARC-10898-1]	c35	N77-18417
Honeycomb-laminate composite structure			Rotating launch device for a remotely piloted aircraft		
[NASA-CASE-ARC-10912-1]	c24	N76-26286	[NASA-CASE-ARC-10979-1]	c09	N77-19076
An artificial leg employing a mechanical energy storage device for hip disarticulation			Low density bismaleimide-carbon microballoon composites		
[NASA-CASE-ARC-10916-1]	c54	N76-26871	[NASA-CASE-ARC-11040-1]	c24	N77-19173
System for measuring Reynolds in a turbulently flowing fluid			Tubular sublimatory evaporator heat sink		
[NASA-CASE-ARC-10755-2]	c34	N76-27517	[NASA-CASE-ARC-10912-1]	c34	N77-19353
Polymeric foams from cross-linkable poly-N-arylenebenzimidazoles			Optically selective, acoustically resonant gas detecting transducer		
[NASA-CASE-ARC-11008-1]	c27	N76-28421	[NASA-CASE-ARC-10639-1]	c35	N77-19388
Flow separation detector			Selective data segment monitoring system		
[NASA-CASE-ARC-11046-1]	c35	N76-28535	[NASA-CASE-ARC-10899-1]	c60	N77-19760
Oblique-wing supersonic aircraft			Oxygen post-treatment of plastic surfaces coated with plasma polymerized silicon-containing monomers		
[NASA-CASE-ARC-10470-3]	c05	N76-29217	[NASA-CASE-ARC-10915-2]	c27	N77-20256
Accelerometer telemetry system			All sky pointing attitude control system		
[NASA-CASE-ARC-10849-1]	c17	N76-29347	[NASA-CASE-ARC-10716-1]	c35	N77-20399
Miniature ingestible telemeter devices to measure deep-body temperature			Metallic hot wire anemometer		
[NASA-CASE-ARC-10583-1]	c52	N76-29894	[NASA-CASE-ARC-10911-1]	c35	N77-20400
Visual examination apparatus			Optical instrument employing reticle having preselected visual response pattern formed thereon		
[NASA-CASE-ARC-10329-2]	c52	N76-30793	[NASA-CASE-ARC-10976-1]	c74	N77-22950
Integrated structure vacuum tube			Induction powered biological radiosonde		
[NASA-CASE-ARC-10445-1]	c31	N76-31365	[NASA-CASE-ARC-11120-1]	c52	N77-23743
Ultraviolet and thermally stable polymer compositions			Abrasion resistant coatings for plastic surfaces		
[NASA-CASE-ARC-10592-2]	c27	N76-32315	[NASA-CASE-ARC-10915-3]	c24	N77-24200
Biomedical ultrasonoscope			Sampling video compression system		
[NASA-CASE-ARC-10994-1]	c52	N76-33835	[NASA-CASE-ARC-10984-1]	c32	N77-24328
Reaction cured glass and glass coatings			Method for making a hot wire anemometer and product thereof		
[NASA-CASE-ARC-11051-1]	c27	N77-10201	[NASA-CASE-ARC-10900-1]	c35	N77-24454
Rotary leveling base platform			Electric discharge for treatment of trace contaminants		
[NASA-CASE-ARC-10981-1]	c35	N77-10498	[NASA-CASE-ARC-10975-1]	c54	N77-24771
Thermistor holder for skin temperature measurements			Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction		
[NASA-CASE-ARC-10855-1]	c52	N77-10780	[NASA-CASE-ARC-10970-1]	c36	N77-25501
Intumescent coating containing 4,4'-dinitrosulfanilide			Spacesuit torso closure		
[NASA-CASE-ARC-11042-1]	c24	N77-11119	[NASA-CASE-ARC-11100-1]	c54	N77-25784
Angle detector			Boron trifluoride coatings for thermoplastic materials		
[NASA-CASE-ARC-11036-1]	c35	N77-11364	[NASA-CASE-ARC-11057-1]	c27	N77-26308
Spectrally balanced chromatic landing approach lighting system			System for measuring three fluctuating velocity components in a turbulently flowing fluid		
[NASA-CASE-ARC-10990-1]	c04	N77-12031	[NASA-CASE-ARC-10974-1]	c34	N77-27345
Automatic multiple-sample applicator and electrophoresis apparatus			Constant lift rotor for a heavier than air craft		
[NASA-CASE-ARC-10991-1]	c25	N77-12157	[NASA-CASE-ARC-11045-1]	c05	N77-28111
Smoke generator			Process for the preparation of calcium superoxide		
[NASA-CASE-ARC-10905-1]	c37	N77-13418	[NASA-CASE-ARC-11053-1]	c25	N77-29254
Intumescent-ablator coatings using endothermic fillers					
[NASA-CASE-ARC-11043-1]	c34	N77-14372			

An improved controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c54 N77-30751

Acoustically swept rotor
[NASA-CASE-ARC-11106-1] c05 N77-31130

Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c25 N77-31260

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404

Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. HUGH L. DEYDEN FLIGHT RESEARCH CENTER, EDWARDS, CALIF.

Window comparator
[NASA-CASE-FRC-10090-1] c33 N77-11296

Fifth wheel
[NASA-CASE-FRC-10081-1] c37 N77-14477

An improved free wing for an aircraft
[NASA-CASE-FRC-10092-1] c05 N77-31135

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. ELECTRONICS RESEARCH CENTER, CAMBRIDGE, MASS.

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343

A method for the deposition of beta-silicon carbide by isoelectronic
[NASA-CASE-ERC-10120] c26 N69-33482

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c15 N70-10867

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Method and means for an improved electron beam scanning system Patent
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Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c16 N71-15567

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Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
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 A complementary DMOS-VMOS integrated circuit structure
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 [NASA-CASE-XGS-02437] c15 N69-21472
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Variable digital processor including a register for shifting and rotating bits in either direction Patent		
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Flavin coenzyme assay [NASA-CASE-GSC-10565-1]	c06	N72-25149
Location identification system [NASA-CASE-ERC-10324]	c07	N72-25173
A dc to ac to dc converter having transistor synchronous rectifiers [NASA-CASE-GSC-11126-1]	c09	N72-25253
Tungsten contacts on silicon substrates [NASA-CASE-GSC-10695-1]	c09	N72-25259
Bacterial contamination monitor [NASA-CASE-GSC-10879-1]	c14	N72-25413
Honeycomb panels formed of minimal surface periodic tubule layers [NASA-CASE-ERC-10364]	c18	N72-25540
Honeycomb core structures of minimal surface tubule sections [NASA-CASE-ERC-10363]	c18	N72-25541
Gunn-type solid state devices [NASA-CASE-XER-07895]	c26	N72-25679
Use of unilluminated solar cells as shunt diodes for a solar array [NASA-CASE-GSC-10344-1]	c03	N72-27053
Active tuned circuit [NASA-CASE-GSC-11340-1]	c10	N72-33230
Electric motive machine including magnetic bearing [NASA-CASE-XGS-07805]	c15	N72-33476
Cosmic dust or other similar outer space particles impact location detector [NASA-CASE-GSC-11291-1]	c25	N72-33696
Method and apparatus for determining the contents of contained gas samples [NASA-CASE-GSC-10903-1]	c14	N73-12444
System for stabilizing torque between a balloon and gondola [NASA-CASE-GSC-11077-1]	c02	N73-13008
Diffuse reflective coating [NASA-CASE-GSC-11214-1]	c06	N73-13128
Data processor with conditionally supplied clock signals [NASA-CASE-GSC-10975-1]	c08	N73-13187
Apparatus for vibrational testing of articles [NASA-CASE-GSC-11302-1]	c14	N73-13416
Method and system for ejecting fairing sections from a rocket vehicle [NASA-CASE-GSC-10590-1]	c31	N73-14853
Plural beam antenna [NASA-CASE-GSC-11013-1]	c09	N73-19234
Star tracking reticles and process for the production thereof [NASA-CASE-GSC-11188-2]	c21	N73-19630
Delayed simultaneous release mechanism [NASA-CASE-GSC-10814-1]	c03	N73-20039
Doppler compensation by shifting transmitted object frequency within limits [NASA-CASE-GSC-10087-4]	c07	N73-20174
Telemetry processor [NASA-CASE-GSC-11388-1]	c07	N73-24187
Signal-to-noise ratio determination circuit [NASA-CASE-GSC-11239-1]	c10	N73-25241
Nutation damper [NASA-CASE-GSC-11205-1]	c15	N73-25513

Low outgassing polydimethylsiloxane material and preparation thereof			Dish antenna having switchable beamwidth	
[NASA-CASE-GSC-11358-1]	c06	N73-26100	[NASA-CASE-GSC-11760-1]	c33 N75-19516
Method of detecting and counting bacteria in body fluids			X-Y alphanumeric character generator for oscilloscopes	
[NASA-CASE-GSC-11092-2]	c04	N73-27052	[NASA-CASE-GSC-11582-1]	c33 N75-19517
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves			Controllable high voltage source having fast settling time	
[NASA-CASE-GSC-10225-1]	c06	N73-27086	[NASA-CASE-GSC-11844-1]	c33 N75-19522
Process for making RF shielded cable connector assemblies and the products formed thereby			Dually mode locked Nd:YAG laser	
[NASA-CASE-GSC-11215-1]	c09	N73-28083	[NASA-CASE-GSC-11746-1]	c36 N75-19654
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body			Self-regulating proportionally controlled heating apparatus and technique	
[NASA-CASE-GSC-11444-1]	c14	N73-28490	[NASA-CASE-GSC-11752-1]	c77 N75-20140
Microscope multi-angle, reflection, viewing adaptor and photographic recording system			Low speed phaselock speed control system	
[NASA-CASE-GSC-11690-1]	c14	N73-28499	[NASA-CASE-GSC-11127-1]	c09 N75-24758
Fastener stretcher			Modulator for tone and binary signals	
[NASA-CASE-GSC-11149-1]	c15	N73-30457	[NASA-CASE-GSC-11743-1]	c32 N75-24981
Spacecraft attitude sensor			Digital phase-locked loop	
[NASA-CASE-GSC-10890-1]	c21	N73-30640	[NASA-CASE-GSC-11623-1]	c33 N75-25040
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions			Magnetic tape head function switching system	
[NASA-CASE-GSC-11169-2]	c05	N73-32011	[NASA-CASE-GSC-11956-1]	c35 N75-25134
Star tracking reticles			Radiation hardening of MOS devices by boron	
[NASA-CASE-GSC-11188-1]	c14	N73-32320	[NASA-CASE-GSC-11425-2]	c76 N75-25730
Peen plating			Correlation type phase detector	
[NASA-CASE-GSC-11163-1]	c15	N73-32360	[NASA-CASE-GSC-11744-1]	c33 N75-26243
Recorder/processor apparatus			Process for making sheets with parallel pores of uniform size	
[NASA-CASE-GSC-11553-1]	c35	N74-15831	[NASA-CASE-GSC-10984-1]	c37 N75-26371
Method of making porous conductive supports for electrodes			Impact position detector for outer space particles	
[NASA-CASE-GSC-11367-1]	c44	N74-19692	[NASA-CASE-GSC-11829-1]	c35 N75-27331
Formation of star tracking reticles			Binary to binary coded decimal converter	
[NASA-CASE-GSC-11188-2]	c74	N74-20008	[NASA-CASE-GSC-12044-1]	c60 N76-13781
Radiation hardening of MOS devices by boron			Single frequency, two feed dish antenna having switchable beamwidth	
[NASA-CASE-GSC-11425-1]	c76	N74-20329	[NASA-CASE-GSC-11968-1]	c32 N76-15329
Amplitude steered array			Micrometeoroid velocity and trajectory analyzer	
[NASA-CASE-GSC-11446-1]	c33	N74-20860	[NASA-CASE-GSC-11892-1]	c35 N76-15433
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly			Atomic standard with variable storage volume	
[NASA-CASE-GSC-11560-1]	c33	N74-20861	[NASA-CASE-GSC-11895-1]	c35 N76-15436
Ultra-stable oscillator with complementary transistors			Method and apparatus for splitting a beam of energy	
[NASA-CASE-GSC-11513-1]	c33	N74-20862	[NASA-CASE-GSC-12083-1]	c36 N76-15451
High efficiency multifrequency feed			High voltage distributor	
[NASA-CASE-GSC-11909]	c32	N74-20863	[NASA-CASE-GSC-11849-1]	c33 N76-16332
Turnstile slot antenna			Moving particle composition analyzer	
[NASA-CASE-GSC-11428-1]	c32	N74-20864	[NASA-CASE-GSC-11889-1]	c35 N76-16393
Method and apparatus for checking fire detectors			A 2 degree/90 degree laboratory scattering photometer	
[NASA-CASE-GSC-11600-1]	c35	N74-21019	[NASA-CASE-GSC-12088-1]	c35 N76-17369
Long range laser traversing system			Variable beamwidth antenna	
[NASA-CASE-GSC-11262-1]	c36	N74-21091	[NASA-CASE-GSC-11862-1]	c32 N76-18295
Method and apparatus for optically monitoring the angular position of a rotating mirror			Automatic character skew and spacing checking network	
[NASA-CASE-GSC-11353-1]	c74	N74-21304	[NASA-CASE-GSC-11925-1]	c33 N76-18353
Image tube			Axially and radially controllable magnetic bearing	
[NASA-CASE-GSC-11602-1]	c33	N74-21850	[NASA-CASE-GSC-11551-1]	c37 N76-18459
Apparatus for controlling the temperature of balloon-borne equipment			Two-dimensional radiant energy array computers and computing devices	
[NASA-CASE-GSC-11620-1]	c34	N74-23039	[NASA-CASE-GSC-11839-2]	c60 N76-18803
Coaxial anode wire for gas radiation counters			Apparatus for simulating optical transmission links	
[NASA-CASE-GSC-11492-1]	c35	N74-26949	[NASA-CASE-GSC-11877-1]	c74 N76-18913
Arterial pulse wave pressure transducer			Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide	
[NASA-CASE-GSC-11531-1]	c52	N74-27566	[NASA-CASE-GSC-11577-3]	c24 N76-19234
Heat flow calorimeter			Camera arrangement	
[NASA-CASE-GSC-11434-1]	c34	N74-27859	[NASA-CASE-GSC-12032-2]	c35 N76-19408
Air conditioning system and component therefore distributing air flow from opposite directions			Telemetry synchronizer	
[NASA-CASE-GSC-11445-1]	c31	N74-27902	[NASA-CASE-GSC-11868-1]	c17 N76-22245
Passive dual spin misalignment compensators			Locking mechanism for orthopedic braces	
[NASA-CASE-GSC-11479-1]	c35	N74-28097	[NASA-CASE-GSC-12082-1]	c54 N76-22914
Star scanner			Magnifying image intensifier	
[NASA-CASE-GSC-11569-1]	c89	N74-30886	[NASA-CASE-GSC-12010-1]	c33 N76-23482
Millimeter wave pumped parametric amplifier			Remote sensing of vegetation and soil using microwave ellipsometry	
[NASA-CASE-GSC-11617-1]	c33	N74-32660	[NASA-CASE-GSC-11976-1]	c43 N76-23671
Structural heat pipe			Ultraviolet light reflective coating	
[NASA-CASE-GSC-11619-1]	c34	N75-12222	[NASA-CASE-GSC-11786-1]	c24 N76-24363
Remote platform power conserving system			Improved low cost substrates for polycrystalline solar cells	
[NASA-CASE-GSC-11182-1]	c15	N75-13007	[NASA-CASE-GSC-12022-2]	c44 N76-26695
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide			Switchable beamwidth monopulse method and system	
[NASA-CASE-GSC-11577-1]	c37	N75-15992	[NASA-CASE-GSC-11924-1]	c33 N76-27472
Magnetic bearing			Fabrication of polycrystalline solar cells on low-cost substrates	
[NASA-CASE-GSC-11079-1]	c37	N75-18574	[NASA-CASE-GSC-12022-1]	c44 N76-28635
			Method of detecting and counting bacteria	
			[NASA-CASE-GSC-11917-2]	c51 N76-29891

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c74 N76-30053

Mechanical capacitor
[NASA-CASE-GSC-12030-1] c44 N76-30652

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c35 N76-31489

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c32 N77-12247

Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c33 N77-14334

Reel safety brake
[NASA-CASE-GSC-11960-1] c37 N77-14479

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751

Actuator mechanism
[NASA-CASE-GSC-11883-2] c37 N77-15400

Magnetic bearing system
[NASA-CASE-GSC-11978-1] c37 N77-17464

Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c38 N77-17495

Detection of microbial infection in blood and antibiotic determinations
[NASA-CASE-GSC-12045-1] c52 N77-18733

Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N77-19319

Cyclical bi-directional rotary actuator
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Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c09 N69-39885

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c09 N69-39986

System for improving signal-to-noise ratio of a communication signal Patent Application
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Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent			
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[NASA-CASE-MSC-12448-1]	c14	N72-20394	
Optical range finder having nonoverlapping complete images			
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Method and apparatus for detecting surface ions on silicon diodes and transistors			
[NASA-CASE-ERC-10325]	c15	N72-25457	
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[NASA-CASE-MSC-12372-1]	c31	N72-25842	
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Altitude measuring system			
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A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth			
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Multispectral imaging system			
[NASA-CASE-MSC-12404-1]	c23	N73-13661	
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[NASA-CASE-MSC-12363-1]	c14	N73-26431	
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[NASA-CASE-MSC-11561-1]	c05	N73-32014	
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Method and device for detection of surface discontinuities or defects			
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Random pulse generator			
[NASA-CASE-MSC-14131-1]	c33	N75-19515	
Grain refinement control in TIG arc welding			
[NASA-CASE-MSC-19095-1]	c37	N75-19683	
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[NASA-CASE-MSC-14143-1]	c77	N75-20139	
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[NASA-CASE-MSC-14558-1]	c32	N75-21486	
Thermal insulation attaching means			
[NASA-CASE-MSC-12619-1]	c39	N75-21671	
Insulated electrocardiographic electrodes			
[NASA-CASE-MSC-14339-1]	c05	N75-24716	
Iodine generator for reclaimed water purification			
[NASA-CASE-MSC-14632-1]	c54	N75-25594	
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[NASA-CASE-MSC-14245-1]	c18	N75-27041	

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Thrust measurement [NASA-CASE-XMS-05731]	c35 N75-29382	Meteoroid capture cell construction [NASA-CASE-MSC-12423-1]	c91 N76-30131
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Low gravity phase separator [NASA-CASE-MSC-14773-1]	c31 N75-32262	Flanged major modular assembly jig [NASA-CASE-MSC-19372-1]	c39 N76-31562
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Medical subject monitoring systems [NASA-CASE-MSC-14180-1]	c52 N76-14757	Stator rotor tools [NASA-CASE-MSC-16000-1]	c07 N77-13062
Automatic bio waste sampling [NASA-CASE-MSC-14640-1]	c54 N76-14804	Hearing aid malfunction detection system [NASA-CASE-MSC-14916-1]	c33 N77-13335
Method for manufacturing mirrors in zero gravity environment [NASA-CASE-MSC-12611-1]	c12 N76-15189	Shielded conductor cable system [NASA-CASE-MSC-12745-1]	c33 N77-13338
Ceramic fiber insulating material and methods of producing same [NASA-CASE-MSC-14795-1]	c27 N76-15314	Process for producing flame resistant polyamides and products produced thereby [NASA-CASE-MSC-16074-1]	c27 N77-14262
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High visibility air sea rescue panel [NASA-CASE-MSC-12564-1]	c54 N76-15792	Dual frequency circularly polarized microwave integrated antenna [NASA-CASE-MSC-16100-1]	c32 N77-15233
Insulation for piping [NASA-CASE-MSC-19523-1]	c31 N76-16245	Positive isolation disconnect [NASA-CASE-MSC-16043-1]	c37 N77-15397
Low distortion receiver for bi-level baseband PCM waveforms [NASA-CASE-MSC-14557-1]	c32 N76-16249	Analysis of volatile organic compounds [NASA-CASE-MSC-14428-1]	c23 N77-17161
Frequency measurement by coincidence detection with standard frequency [NASA-CASE-MSC-14649-1]	c33 N76-16331	System for producing chroma signals [NASA-CASE-MSC-14683-1]	c74 N77-18893
Pyrolysis system and process [NASA-CASE-MSC-12669-1]	c44 N76-16621	Multi-purpose wind tunnel reaction control model block [NASA-CASE-MSC-19706-1]	c09 N77-19077
Space vehicle system [NASA-CASE-MSC-12561-1]	c18 N76-17185	Bit error rate measurement above and below bit rate tracking threshold [NASA-CASE-MSC-12743-1]	c32 N77-19290
Method of fluxless brazing and diffusion bonding of aluminum containing components [NASA-CASE-MSC-14435-1]	c37 N76-18455	Phase array antenna control [NASA-CASE-MSC-14939-1]	c33 N77-19320
Optical conversion method [NASA-CASE-MSC-12618-1]	c74 N76-18917	Fluid mass sensor for a zero gravity environment [NASA-CASE-MSC-14653-1]	c35 N77-19385
Auger attachment method for insulation [NASA-CASE-MSC-12615-1]	c37 N76-19437	Sequencing device utilizing planetary gear set [NASA-CASE-MSC-19514-1]	c37 N77-19459
Position determination systems [NASA-CASE-MSC-12593-1]	c17 N76-21250	Portable breathing system [NASA-CASE-MSC-16182-1]	c54 N77-21847
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A process of forming catalytic surfaces for oxidation reactions [NASA-CASE-MSC-14831-1]	c25 N76-23387	Mechanical sequencer [NASA-CASE-MSC-19536-1]	c37 N77-22482
Three-component ceramic coating for silica insulation [NASA-CASE-MSC-14270-2]	c27 N76-23426	Unbalanced quadriphase demodulator [NASA-CASE-MSC-14840-1]	c32 N77-24331
Flexible pile thermal barrier seal [NASA-CASE-MSC-19568-1]	c37 N76-23585	Open loop digital frequency multiplier [NASA-CASE-MSC-12709-1]	c33 N77-24375
Binary concatenated coding system [NASA-CASE-MSC-14082-1]	c60 N76-23850	Water system virus detection [NASA-CASE-MSC-16098-1]	c51 N77-24755
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant [NASA-CASE-MSC-14331-1]	c27 N76-24405	Non-floating universal joint [NASA-CASE-MSC-19546-1]	c37 N77-25536
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Flame retardant elastomeric compositions [NASA-CASE-MSC-14331-3]	c27 N76-24409	Surface finishing [NASA-CASE-MSC-12631-1]	c24 N77-28225
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		Process for removing sulfur dioxide from gas streams [NASA-CASE-MSC-16299-1]	c45 N77-31668

Lead regulating latch
[NASA-CASE-KSC-19535-1] c37 N77-32499

Regenerable device for scrubbing breathable air
of CO2 and moisture without special heat
exchanger equipment
[NASA-CASE-KSC-10771-1] c54 N77-32722

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Device for determining the accuracy of the flare
on a flared tube
[NASA-CASE-KSC-03495] c14 N69-39785

Quick attach and release fluid coupling assembly
Patent
[NASA-CASE-KSC-01985] c15 N71-10782

Parasitic probe antenna Patent
[NASA-CASE-KSC-09348] c09 N71-13521

Electronic checkout system for space vehicles
Patent
[NASA-CASE-KSC-08012-2] c31 N71-15566

Apparatus for tensile testing Patent
[NASA-CASE-KSC-06250] c14 N71-15600

Weatherproof helix antenna Patent
[NASA-CASE-KSC-08485] c07 N71-19493

Valve seat with resilient support member Patent
[NASA-CASE-KSC-02582] c15 N71-21234

Diode and protection fuse unit Patent
[NASA-CASE-KSC-03381] c09 N71-22796

Optical monitor panel Patent
[NASA-CASE-KSC-03509] c14 N71-23175

Separation simulator Patent
[NASA-CASE-KSC-04631] c10 N71-23663

Controlled release device Patent
[NASA-CASE-KSC-03338] c15 N71-24043

Phonocardiogram simulator Patent
[NASA-CASE-KSC-10804] c05 N71-24606

VFP/UHF parasitic probe antenna Patent
[NASA-CASE-KSC-09340] c07 N71-24614

BCD to decimal decoder Patent
[NASA-CASE-KSC-06167] c08 N71-24890

Flammability test chamber Patent
[NASA-CASE-KSC-10126] c11 N71-24985

Video sync processor Patent
[NASA-CASE-KSC-10002] c10 N71-25865

Weld preparation machine Patent
[NASA-CASE-KSC-07953] c15 N71-26134

Validation device for spacecraft checkout
equipment Patent
[NASA-CASE-KSC-10543] c07 N71-26292

Internal work light Patent
[NASA-CASE-KSC-05932] c09 N71-26787

Emergency escape system Patent
[NASA-CASE-KSC-07814] c15 N71-27067

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c10 N71-27338

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c11 N71-28629

Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c07 N71-33108

Ripple indicator
[NASA-CASE-KSC-10162] c09 N72-11225

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c14 N72-18411

High speed direct binary-to-binary coded decimal
converter
[NASA-CASE-KSC-10326] c08 N72-21197

Automatic frequency control loop including
synchronous switching circuits
[NASA-CASE-KSC-10393] c09 N72-21247

Universal environment package with sectional
component housing
[NASA-CASE-KSC-10031] c15 N72-22486

Buffered analog converter
[NASA-CASE-KSC-10397] c08 N72-25206

Lamp modulator
[NASA-CASE-KSC-10565] c09 N72-25250

Cable stabilizer for open shaft cable operated
elevators
[NASA-CASE-KSC-10513] c15 N72-25453

Pressurized lighting system
[NASA-CASE-KSC-10644] c09 N72-27227

High speed direct binary to binary coded decimal
converter and scaler
[NASA-CASE-KSC-10595] c08 N73-12176

Geysering inhibitor for vertical cryogenic
transfer pipe
[NASA-CASE-KSC-10615] c15 N73-12486

Electronic video editor
[NASA-CASE-KSC-10003] c10 N73-13235

Character indicating display device
[NASA-CASE-KSC-00348] c09 N73-14215

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c07 N73-26117

Floating baffle to improve efficiency of liquid
transfer from tanks
[NASA-CASE-KSC-10639] c15 N73-26472

Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c14 N73-27378

Optical rotational sensor
[NASA-CASE-KSC-10752-1] c15 N73-27407

Television multiplexing system
[NASA-CASE-KSC-10654-1] c07 N73-30115

Lightning tracking system
[NASA-CASE-KSC-10729-1] c09 N73-32110

Rocket borne instrument to measure electric
fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c14 N73-32318

Electric field measuring and display system
[NASA-CASE-KSC-10731-1] c33 N74-27862

Digital servo controller
[NASA-CASE-KSC-10769-1] c33 N74-29556

Signal conditioner test set
[NASA-CASE-KSC-10750-1] c35 N75-12270

Variable resistance constant tension and
lubrication device
[NASA-CASE-KSC-10723-1] c37 N75-13265

Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521

Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c33 N75-26246

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431

Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c33 N76-14371

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738

Illumination control apparatus for compensating
solar light
[NASA-CASE-KSC-11010-1] c44 N77-15493

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c74 N77-15826

Microcomputerized electric field meter
diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c33 N77-20343

Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c33 N77-21319

Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c33 N77-21320

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c33 N77-21321

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c44 N77-21666

Flame-resistant liquid oxygen compatible
neoprene rubber composition
[NASA-CASE-KSC-11020-1] c27 N77-23267

Magnetic electrical connectors for biomedical
percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772

Cable fault locator
[NASA-CASE-KSC-10899-1] c33 N77-28394

Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c54 N77-30749

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Jet shoes
[NASA-CASE-XLA-08491] c05 N69-21380

Condenser - Separator
[NASA-CASE-XLA-08645] c15 N69-21465

Connector - Electrical
[NASA-CASE-XLA-01288] c09 N69-21470

A support technique for vertically oriented
launch vehicles
[NASA-CASE-XLA-02704] c11 N69-21540

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c14 N69-27461

Evaporant holder
[NASA-CASE-XLA-03105] c15 N69-27483

Compensating radiometer
[NASA-CASE-XLA-04556] c14 N69-27484

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c15 N69-27490

Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c15 N69-27505

Ablation sensor
[NASA-CASE-XLA-01781] c14 N69-39975

Aeroflexible structures
[NASA-CASE-XLA-06095] c01 N69-39981

Transient-compensated SCR inverter [NASA-CASE-XLA-08507]	c09 N69-39984	Production of high purity silicon carbide Patent [NASA-CASE-XLA-00158]	c26 N70-36805
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Reentry vehicle leading edge Patent [NASA-CASE-XLA-00165]	c31 N70-33242	Continuously operating induction plasma accelerator Patent [NASA-CASE-XLA-01354]	c25 N70-36946
Motion picture camera for optical pyrometry Patent [NASA-CASE-XLA-00062]	c14 N70-33254	Check valve assembly for a probe Patent [NASA-CASE-XLA-00128]	c15 N70-37925
Variable sweep wing configuration Patent [NASA-CASE-XLA-00230]	c02 N70-33255	Space capsule Patent [NASA-CASE-XLA-00149]	c31 N70-37938
Variable sweep wing aircraft Patent [NASA-CASE-XLA-00221]	c02 N70-33266	Sandwich panel construction Patent [NASA-CASE-XLA-00349]	c33 N70-37979
Plasma accelerator Patent [NASA-CASE-XLA-00675]	c25 N70-33267	Reflector space satellite Patent [NASA-CASE-XLA-00138]	c31 N70-37981
Survival couch Patent [NASA-CASE-XLA-00118]	c05 N70-33285	Variable-geometry winged reentry vehicle Patent [NASA-CASE-XLA-00241]	c31 N70-37986
Landing arrangement for aerial vehicles Patent [NASA-CASE-XLA-00142]	c02 N70-33286	Vehicle parachute and equipment jettison system Patent [NASA-CASE-XLA-00195]	c02 N70-38009
Wind tunnel airstream oscillating apparatus Patent [NASA-CASE-XLA-00112]	c11 N70-33287	Landing arrangement for aerospace vehicle Patent [NASA-CASE-XLA-00805]	c31 N70-38010
Hydrofoil Patent [NASA-CASE-XLA-00229]	c12 N70-33305	Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent [NASA-CASE-XLA-00414]	c07 N70-38200
High intensity heat and light unit Patent [NASA-CASE-XLA-00141]	c09 N70-33312	Deepin weight release Patent [NASA-CASE-XLA-00679]	c15 N70-38601
Particle detection apparatus Patent [NASA-CASE-XLA-00135]	c14 N70-33322	Manned space station Patent [NASA-CASE-XLA-00258]	c31 N70-38676
Runway light Patent [NASA-CASE-XLA-00119]	c11 N70-33329	Missile stage separation indicator and stage initiator Patent [NASA-CASE-XLA-00791]	c03 N70-39930
Spherical solid-propellant rocket motor Patent [NASA-CASE-XLA-00105]	c28 N70-33331	Apparatus for producing high purity silicon carbide crystals Patent [NASA-CASE-XLA-02057]	c26 N70-40015
Jet aircraft configuration Patent [NASA-CASE-XLA-00087]	c02 N70-33332	Miniature vibration isolator Patent [NASA-CASE-XLA-01019]	c15 N70-40156
Aerial capsule emergency separation device Patent [NASA-CASE-XLA-00115]	c03 N70-33343	Aircraft instrument Patent [NASA-CASE-XLA-00487]	c14 N70-40157
Nozzle Patent [NASA-CASE-XLA-00154]	c28 N70-33374	Radiation direction detector including means for compensating for photocell aging Patent [NASA-CASE-XLA-00183]	c14 N70-40239
Air frame drag balance Patent [NASA-CASE-XLA-00113]	c14 N70-33386	Passive communication satellite Patent [NASA-CASE-XLA-00210]	c30 N70-40309
Flexible foam erectable space structures Patent [NASA-CASE-XLA-00686]	c31 N70-34135	Electrostatic plasma modulator for space vehicle re-entry communication Patent [NASA-CASE-XLA-01400]	c07 N70-41331
Nose gear steering system for vehicle with main skids Patent [NASA-CASE-XLA-01804]	c02 N70-34160	Micrometeoroid velocity measuring device Patent [NASA-CASE-XLA-00495]	c14 N70-41332
Surface roughness detector Patent [NASA-CASE-XLA-00203]	c14 N70-34161	Method of obtaining permanent record of surface flow phenomena Patent [NASA-CASE-XLA-01353]	c14 N70-41366
Variable-span aircraft Patent [NASA-CASE-XLA-00166]	c02 N70-34178	Means for communicating through a layer of ionized gases Patent [NASA-CASE-XLA-01127]	c07 N70-41372
Dynamic precession damper for spin stabilized vehicles Patent [NASA-CASE-XLA-01989]	c21 N70-34295	Quick release separation mechanism Patent [NASA-CASE-XLA-01441]	c15 N70-41679
Erectable modular space station Patent [NASA-CASE-XLA-00678]	c31 N70-34296	Flexible wing deployment device Patent [NASA-CASE-XLA-01220]	c02 N70-41863
Electric-arc heater Patent [NASA-CASE-XLA-00330]	c33 N70-34540	Self-sealing, unbonded, rocket motor nozzle closure Patent [NASA-CASE-XLA-02651]	c28 N70-41967
Ac power amplifier Patent Application [NASA-CASE-LAR-10218-1]	c09 N70-34559	Fatigue testing device Patent [NASA-CASE-XLA-02131]	c32 N70-42003
Method and apparatus for producing a plasma Patent [NASA-CASE-XLA-00147]	c25 N70-34661	Techniques for insulating cryogenic fuel containers Patent [NASA-CASE-XLA-01967]	c31 N70-42015
Gas actuated bolt disconnect Patent [NASA-CASE-XLA-00326]	c03 N70-34667	Double hinged flap Patent [NASA-CASE-XLA-01290]	c02 N70-42016
Logarithmic converter Patent [NASA-CASE-XLA-00471]	c08 N70-34778	Spacecraft separation system for spinning vehicles and/or payloads Patent [NASA-CASE-XLA-02132]	c31 N71-10582
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent [NASA-CASE-XLA-00304]	c27 N70-34783	Method for molding compounds Patent [NASA-CASE-XLA-01091]	c15 N71-10672
Impact simulator Patent [NASA-CASE-XLA-00493]	c11 N70-34786	Automatic force measuring system Patent [NASA-CASE-XLA-02605]	c14 N71-10773
Accelerometer with FM output Patent [NASA-CASE-XLA-00492]	c14 N70-34799	Gas analyzer for bi-gaseous mixtures Patent [NASA-CASE-XLA-01131]	c14 N71-10774
Frangible tube energy dissipation Patent [NASA-CASE-XLA-00754]	c15 N70-34850	Multiple input radio receiver Patent [NASA-CASE-XLA-00901]	c07 N71-10775
Landing arrangement for aerial vehicle Patent [NASA-CASE-XLA-00806]	c02 N70-34858		
Method and apparatus for shock protection Patent [NASA-CASE-XLA-00482]	c15 N70-36409		
Inflatable honeycomb Patent [NASA-CASE-XLA-00204]	c32 N70-36536		
Thermal control of space vehicles Patent [NASA-CASE-XLA-01291]	c33 N70-36617		
Foam generator Patent [NASA-CASE-XLA-00838]	c03 N70-36778		
Parachute glider Patent [NASA-CASE-XLA-00892]	c02 N70-36804		

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c11 N71-10776

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c28 N71-10780

All-directional fastener Patent
[NASA-CASE-XLA-01807] c15 N71-10799

Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c02 N71-11037

Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c02 N71-11038

Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c02 N71-11041

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c02 N71-11043

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c05 N71-11194

Equipotential space suit Patent
[NASA-CASE-XLA-10007-1] c05 N71-11195

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c05 N71-11207

Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c06 N71-11235

Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c06 N71-11238

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c07 N71-11266

Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c07 N71-11284

Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c21 N71-11766

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c02 N71-12243

Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c03 N71-12258

Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c03 N71-12259

Backpack carrier Patent
[NASA-CASE-LAR-10056] c05 N71-12351

Optical communications system Patent
[NASA-CASE-XLA-01090] c07 N71-12389

Analog to digital converter Patent
[NASA-CASE-XLA-00670] c08 N71-12501

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c08 N71-12507

SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c09 N71-12514

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c01 N71-13410

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c01 N71-13411

Mechanical stability augmentation system Patent
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Automatic balancing device Patent
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Spacecraft experiment pointing and attitude control system Patent
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Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c14 N71-14996

Crossed-field MHD plasma generator/accelerator Patent
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Adjustable attitude guide device Patent
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Control system for rocket vehicles Patent
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Excessive temperature warning system Patent
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Alleviation of divergence during rocket launch Patent
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Variable geometry manned orbital vehicle Patent
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Payload/burned-out motor case separation system Patent
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Velocity package Patent
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File card marker Patent
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Hypersonic test facility Patent
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Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c11 N71-15926

Reduced gravity simulator Patent
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Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
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Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
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Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c31 N71-16085

Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c32 N71-16103

Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c32 N71-16106

Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c31 N71-16221

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c20 N71-16281

Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c32 N71-16428

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[NASA-CASE-XLA-02079] c12 N71-16894

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Viscous pendulum damper Patent
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[NASA-CASE-XLA-00117] c31 N71-17680

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[NASA-CASE-XLA-00892] c33 N71-17897

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Ionization vacuum gauge with all but the end of the ion collector shielded Patent
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Safe-arm initiator Patent
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Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c15 N71-18616

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[NASA-CASE-XLA-07732] c08 N71-18751

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c15 N71-19569

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Flow field simulation Patent
[NASA-CASE-LAR-11138] c12 N71-20436

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[NASA-CASE-XLA-02850] c09 N71-20447

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[NASA-CASE-XLA-01794]	c33 N71-21586	[NASA-CASE-XLA-04251]	c18 N71-26100
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[NASA-CASE-XLA-01243]	c33 N71-22792	[NASA-CASE-XLA-02619]	c10 N71-26334
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[NASA-CASE-XLA-04295]	c16 N71-24170	[NASA-CASE-XLA-00013]	c15 N71-29136
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[NASA-CASE-XLE-03432]	c33 N71-24145	[NASA-CASE-ERC-10048]	c09 N72-25451
Method of attaching a cover glass to a silicon solar cell Patent		Controllable load insensitive power converters	
[NASA-CASE-XLE-08569-2]	c03 N71-24681	[NASA-CASE-ERC-10268]	c09 N72-25252
Rocket engine injector Patent		Angular velocity and acceleration measuring apparatus	
[NASA-CASE-XLE-03157]	c28 N71-24736	[NASA-CASE-ERC-10292]	c14 N72-25410
Multialarm summary alarm Patent		Electrical insulating layer process	
[NASA-CASE-XLE-03061-1]	c10 N71-24798	[NASA-CASE-LEW-10489-1]	c15 N72-25447
Apparatus for making curved reflectors Patent		Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering	
[NASA-CASE-XLE-08917-2]	c15 N71-24836	[NASA-CASE-LEW-10450-1]	c15 N72-25448
Flow angle sensor and read out system Patent		Selective nickel deposition	
[NASA-CASE-XLE-04503]	c14 N71-24864	[NASA-CASE-LEW-10965-1]	c15 N72-25452
Shock tube powder dispersing apparatus Patent		Method of making fiber composites	
[NASA-CASE-XLE-04946]	c17 N71-24911	[NASA-CASE-LEW-10424-2-2]	c18 N72-25539
Pneumatic oscillator Patent		Electricity measurement devices employing liquid crystalline materials	
[NASA-CASE-LEW-10345-1]	c10 N71-25899	[NASA-CASE-ERC-10275]	c26 N72-25680
Heat activated cell with alkali anode and alkali salt electrolyte Patent		Ablative system	
[NASA-CASE-LEW-11358]	c03 N71-26084	[NASA-CASE-LEW-10359]	c33 N72-25911
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent		Inductance device with vacuum insulation	
[NASA-CASE-XLE-03940]	c18 N71-26153	[NASA-CASE-LEW-10330-1]	c09 N72-27226
Ion beam deflector Patent		Apparatus for sensing temperature	
[NASA-CASE-LEW-11689-1]	c28 N71-26173	[NASA-CASE-XLE-05230]	c14 N72-27410
Rolling element bearings Patent		Apparatus for producing metal powders	
[NASA-CASE-XLE-09527-2]	c15 N71-26189	[NASA-CASE-XLE-06461-2]	c17 N72-28535
Ion thruster accelerator system Patent		Refractory metal base alloy composites	
[NASA-CASE-LEW-10106-1]	c28 N71-26642	[NASA-CASE-XLE-03940-2]	c17 N72-28536
Propellant feed isolator Patent		Apparatus for producing high purity I-123	
[NASA-CASE-LEW-10210-1]	c28 N71-26781	[NASA-CASE-LEW-10518-2]	c24 N72-28714
Heat activated cell Patent		Spiral groove seal	
[NASA-CASE-LEW-11359]	c03 N71-28579	[NASA-CASE-XLE-10326-2]	c15 N72-29488
Process for glass coating an ion accelerator grid Patent		Production of high purity I-123	
[NASA-CASE-LEW-10278-1]	c15 N71-28582	[NASA-CASE-LEW-10518-1]	c24 N72-33681
Fluid jet amplifier Patent		Electrostatic collector for charged particles	
[NASA-CASE-XLE-09341]	c12 N71-28741	[NASA-CASE-LEW-11192-1]	c09 N73-13208
Gas core nuclear reactor Patent		Method of making apparatus for sensing temperature	
[NASA-CASE-LEW-10250-1]	c22 N71-28759	[NASA-CASE-XLE-05230-2]	c14 N73-13417
Gas turbine combustor Patent		Method of forming superalloys	
[NASA-CASE-LEW-10286-1]	c28 N71-28915	[NASA-CASE-LEW-10805-1]	c15 N73-13465
Cyclic switch Patent		Rocket thrust throttling system	
[NASA-CASE-LEW-10155-1]	c09 N71-29035	[NASA-CASE-LEW-10374-1]	c28 N73-13773
Temperature reducing coating for metals subject to flame exposure Patent		Gas turbine engine fuel control	
[NASA-CASE-XLE-00035]	c33 N71-29151	[NASA-CASE-LEW-11187-1]	c28 N73-19793
Liquid spray cooling method Patent		Thermocouple tape	
[NASA-CASE-XLE-00027]	c33 N71-29152	[NASA-CASE-LEW-11072-1]	c14 N73-24472
Turbo-machine blade vibration damper Patent		Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias	
[NASA-CASE-XLE-00155]	c28 N71-29154	[NASA-CASE-LEW-10920-1]	c17 N73-24569
Corrosion resistant beryllium Patent		Magneto-plasma-dynamic arc thruster	
[NASA-CASE-LEW-10327]	c17 N71-33408	[NASA-CASE-LEW-11180-1]	c25 N73-25760
Integrated thermoelectric generator/space antenna combination		Ablative system	
[NASA-CASE-XER-09521]	c09 N72-12136	[NASA-CASE-LEW-10359-2]	c33 N73-25952
Sensing probe		Parasitic suppressing circuit	
[NASA-CASE-LEW-10281-1]	c14 N72-17327	[NASA-CASE-ERC-10403-1]	c10 N73-26228
Method of making emf cell		Twisted multifilament superconductor	
[NASA-CASE-LEW-11359-2]	c03 N72-20034	[NASA-CASE-LEW-11726-1]	c26 N73-26752
Gaseous control system for nuclear reactors		Ophthalmic method and apparatus	
[NASA-CASE-XLE-04599]	c22 N72-20597	[NASA-CASE-LEW-11669-1]	c05 N73-27062
Switching regulator		Rocket propellant injection	
[NASA-CASE-LEW-11005-1]	c09 N72-21243	[NASA-CASE-LEW-11071-1]	c27 N73-27695
Saturation current protection apparatus for saturable core transformers		Single grid accelerator for an ion thruster	
[NASA-CASE-ERC-10074-2]	c09 N72-22196	[NASA-CASE-XLE-10453-2]	c28 N73-27699
		Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids	
		[NASA-CASE-LEW-11325-1]	c06 N73-27980
		Method and apparatus for measuring electromagnetic radiation	

[NASA-CASE-LEW-11159-1]	c14 N73-28488	High current electrical lead	
Welding blades to rotors		[NASA-CASE-LEW-10950-1]	c33 N74-27683
[NASA-CASE-LEW-10533-1]	c15 N73-28515	Magnetocaloric pump	
An ion exchange nuclear reactor		[NASA-CASE-LEW-11672-1]	c37 N74-27904
[NASA-CASE-LEW-11645-2]	c22 N73-28660	Supersonic fan blading	
Low mass rolling element for bearings		[NASA-CASE-LEW-11402-1]	c07 N74-28226
[NASA-CASE-LEW-11087-1]	c15 N73-30458	Production of pure metals	
Swirl can primary combustor		[NASA-CASE-LEW-10906-1]	c25 N74-30502
[NASA-CASE-LEW-11326-1]	c23 N73-30665	Sputtering holes with ion beamlets	
Enhanced diffusion welding		[NASA-CASE-LEW-11646-1]	c20 N74-31269
[NASA-CASE-LEW-11388-1]	c15 N73-32358	Method of electroforming a rocket chamber	
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series		[NASA-CASE-LEW-11118-1]	c20 N74-32919
[NASA-CASE-LEW-11152-1]	c15 N73-32359	Journal Bearings	
Nickel aluminide coated low alloy stainless steel		[NASA-CASE-LEW-11076-2]	c37 N74-32921
[NASA-CASE-LEW-11267-1]	c17 N73-32414	Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby	
Cobalt-base alloy		[NASA-CASE-LEW-12053-1]	c27 N74-34579
[NASA-CASE-LEW-10436-1]	c17 N73-32415	Hall effect magnetometer	
Nuclear fuel elements		[NASA-CASE-LEW-11632-2]	c35 N75-13213
[NASA-CASE-XLE-00209]	c22 N73-32528	Method of protecting the surface of a substrate	
Method of fabricating a twisted composite superconductor		[NASA-CASE-LEW-11696-1]	c37 N75-13261
[NASA-CASE-LEW-11015]	c26 N73-32571	Circuit for detecting initial systole and diastolic notch	
Space vehicle with artificial gravity and earth-like environment		[NASA-CASE-LEW-11581-1]	c54 N75-13531
[NASA-CASE-LEW-11101-1]	c31 N73-32750	Insulation foil and method of making	
Production of hollow components for rolling element bearings by diffusion welding		[NASA-CASE-LEW-11484-2]	c24 N75-14839
[NASA-CASE-LEW-11026-1]	c15 N73-33383	Method of making dished ion thruster grids	
Electron beam controller		[NASA-CASE-LEW-11694-1]	c20 N75-18310
[NASA-CASE-LEW-11617-1]	c33 N74-10195	Duplex aluminized coatings	
Spiral groove seal		[NASA-CASE-LEW-11696-2]	c26 N75-19408
[NASA-CASE-LEW-10326-3]	c37 N74-10474	Heat exchanger	
Apparatus for producing high purity I-123		[NASA-CASE-LEW-12252-1]	c34 N75-19579
[NASA-CASE-LEW-10518-3]	c31 N74-10476	A heat exchanger and method of making	
Method of heat treating a formed powder product material		[NASA-CASE-LEW-12441-1]	c34 N75-19580
[NASA-CASE-LEW-10805-3]	c26 N74-10521	High speed, self-acting shaft seal	
Apparatus for welding blades to rotors		[NASA-CASE-LEW-11274-1]	c37 N75-21631
[NASA-CASE-LEW-10533-2]	c37 N74-11300	High power laser apparatus and system	
High powered arc electrodes		[NASA-CASE-XLE-2529-2]	c36 N75-27364
[NASA-CASE-LEW-11162-1]	c33 N74-12913	Combination automatic-starting electrical plasma torch and gas shutoff valve	
Method of forming articles of manufacture from superalloy powders		[NASA-CASE-XLE-10717]	c37 N75-29426
[NASA-CASE-LEW-10805-2]	c37 N74-13179	Flow measuring apparatus	
Fine particulate capture device		[NASA-CASE-LEW-12078-1]	c35 N75-30503
[NASA-CASE-LEW-11583-1]	c37 N74-13199	Lubricated journal bearing	
Deposition of alloy films		[NASA-CASE-LEW-11076-3]	c37 N75-30562
[NASA-CASE-LEW-11262-1]	c27 N74-13270	Protected isotope heat source	
Supersonic-combustion rocket		[NASA-CASE-LEW-11227-1]	c73 N75-30876
[NASA-CASE-LEW-11058-1]	c20 N74-13502	Drilled ball bearing with a one piece anti-tipping cage assembly	
Method of making silicon solar cell array		[NASA-CASE-LEW-11925-1]	c37 N75-31446
[NASA-CASE-LEW-11069-1]	c44 N74-14784	Method of making an insulation foil	
Spiral groove seal		[NASA-CASE-LEW-11484-1]	c24 N75-33181
[NASA-CASE-XLE-10326-4]	c37 N74-15125	Ophthalmic liquifaction pump	
Method of making rolling element bearings		[NASA-CASE-LEW-12051-1]	c52 N75-33640
[NASA-CASE-LEW-11087-2]	c37 N74-15128	Controlled separation combustor	
Gas turbine exhaust nozzle		[NASA-CASE-LEW-11593-1]	c20 N76-14190
[NASA-CASE-LEW-11569-1]	c07 N74-15453	Rocket chamber and method of making	
Demodulator for carrier transducers		[NASA-CASE-LEW-11118-2]	c20 N76-14191
[NASA-CASE-NUC-10107-1]	c33 N74-17930	Shock position sensor for supersonic inlets	
Diffusion welding in air		[NASA-CASE-LEW-11915-1]	c35 N76-14431
[NASA-CASE-LEW-11387-1]	c37 N74-18128	Apparatus for forming dished ion thruster grids	
Airflow control system for supersonic inlets		[NASA-CASE-LEW-11694-2]	c37 N76-14461
[NASA-CASE-LEW-11188-1]	c02 N74-20646	Covered silicon solar cells and method of manufacture	
Rapidly pulsed, high intensity, incoherent light source		[NASA-CASE-LEW-11065-2]	c44 N76-14600
[NASA-CASE-XLE-2529-3]	c33 N74-20859	Solar cell surface treatment	
Electromagnetic flow rate meter		[NASA-CASE-LEW-11330-1]	c44 N76-14612
[NASA-CASE-LEW-10981-1]	c35 N74-21018	High temperature beryllium oxide capacitor	
Diffusion welding		[NASA-CASE-LEW-11938-1]	c33 N76-15373
[NASA-CASE-LEW-11388-2]	c37 N74-21055	Thermocouple tape	
Journal bearings		[NASA-CASE-LEW-11072-2]	c35 N76-15434
[NASA-CASE-LEW-11076-1]	c37 N74-21061	Fluid journal bearings	
Glass-to-metal seals comprising relatively high expansion metals		[NASA-CASE-LEW-11076-4]	c37 N76-15461
[NASA-CASE-LEW-10698-1]	c37 N74-21063	Selective coating for solar panels	
Hollow rolling element bearings		[NASA-CASE-LEW-12159-1]	c44 N76-15603
[NASA-CASE-LEW-11087-3]	c37 N74-21064	Deuterium pass through target	
Low level signal limiter		[NASA-CASE-LEW-11866-1]	c72 N76-15860
[NASA-CASE-XLE-04791]	c32 N74-22096	Fused silicide coatings containing discrete particles for protecting niobium alloys	
Load insensitive electrical device		[NASA-CASE-LEW-11179-1]	c27 N76-16229
[NASA-CASE-XER-11046-2]	c33 N74-22864	Tantalum modified ferritic iron base alloys	
Reinforced structural plastics		[NASA-CASE-LEW-12095-1]	c26 N76-17233
[NASA-CASE-LEW-10199-1]	c27 N74-23125	Method of forming metal hydride films	
Jet exhaust noise suppressor		[NASA-CASE-LEW-12083-1]	c26 N76-18262
[NASA-CASE-LEW-11286-1]	c07 N74-27490	Process for making anhydrous metal halides	
		[NASA-CASE-LEW-11860-1]	c37 N76-18458

Thermocouples of niobium and iridium alloys for more stable vacuum-high temperature performance		[NASA-CASE-LEW-12232-1]	c07 N77-18160
[NASA-CASE-LEW-12174-1]	c35 N76-19407	Device for the detection of phenol and related compounds	
Flexible formulated plastic separators for alkaline batteries		[NASA-CASE-LEW-12513-1]	c25 N77-18238
[NASA-CASE-LEW-12363-1]	c44 N76-19552	In-situ laser retorting of oil shale	
Fuel combustor		[NASA-CASE-LEW-12217-1]	c36 N77-18429
[NASA-CASE-LEW-12137-1]	c20 N76-20215	Formulated plastic separators for soluble electrode cells	
Closed loop spray cooling apparatus		[NASA-CASE-LEW-12358-1]	c44 N77-18560
[NASA-CASE-LEW-11981-1]	c37 N76-20486	Leading edge protection for composite blades	
Counter pumping debris excluder and separator		[NASA-CASE-LEW-12550-1]	c24 N77-19170
[NASA-CASE-LEW-11855-1]	c37 N76-20487	Method of making reinforced composite structure	
Circumferential shaft seal		[NASA-CASE-LEW-12619-1]	c24 N77-19171
[NASA-CASE-LEW-12119-1]	c37 N76-20488	Solar cell assembly	
Method of constructing dished ion thruster grids to provide hole array spacing compensation		[NASA-CASE-LEW-11549-1]	c44 N77-19571
[NASA-CASE-LEW-11876-1]	c20 N76-21276	Anode for ion thruster	
Splash groove fuel injector		[NASA-CASE-LEW-12048-1]	c20 N77-20162
[NASA-CASE-LEW-12417-1]	c07 N76-22198	Zirconium modified nickel-copper alloy	
Bearing material		[NASA-CASE-LEW-12245-1]	c26 N77-20201
[NASA-CASE-LEW-11930-1]	c24 N76-22309	Flow compensating pressure regulator	
Atomic hydrogen storage method and apparatus		[NASA-CASE-LEW-12718-1]	c35 N77-20408
[NASA-CASE-LEW-12081-1]	c28 N76-22399	Reduced chromium stainless steel alloys	
Fluid seal for rotating shafts		[NASA-CASE-LEW-12543-1]	c26 N77-21217
[NASA-CASE-LEW-11676-1]	c37 N76-22541	Gels as battery separators for soluble electrode cells	
Thermal barrier coating system		[NASA-CASE-LEW-12364-1]	c44 N77-22606
[NASA-CASE-LEW-12554-1]	c24 N76-23359	Method for producing solar energy panels by automation	
Method of making an apertured casting		[NASA-CASE-LEW-12541-1]	c44 N77-22615
[NASA-CASE-LEW-11169-1]	c37 N76-23570	Oil cooling system for a gas turbine engine	
Multi-cell battery protection system		[NASA-CASE-LEW-12830-1]	c07 N77-23106
[NASA-CASE-LEW-12039-1]	c44 N76-23713	High toughness-high strength iron alloy	
Improved tissue macerating instrument		[NASA-CASE-LEW-12542-1]	c26 N77-24254
[NASA-CASE-LEW-12668-1]	c52 N76-23837	A regulated high efficiency, lightweight capacitor-diode multiplier DC to DC converter	
Process for fabricating SiC semiconductor devices		[NASA-CASE-LEW-12791-1]	c33 N77-24385
[NASA-CASE-LEW-12094-1]	c76 N76-25049	A cantilever mounted resilient pad gas bearing	
Bearing material		[NASA-CASE-LEW-12569-1]	c37 N77-24496
[NASA-CASE-LEW-11930-2]	c24 N76-26282	Gas path seal	
Method of producing I-123		[NASA-CASE-LEW-12131-1]	c37 N77-24498
[NASA-CASE-LEW-11390-2]	c25 N76-27383	Application of semiconductor diffusants to solar cells by screen printing	
Extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field		[NASA-CASE-LEW-12775-1]	c44 N77-24589
[NASA-CASE-LEW-12465-1]	c72 N76-27967	Method for fabricating solar cells having integral collector grids	
Liquid metal slip ring		[NASA-CASE-LEW-12819-1]	c44 N77-24593
[NASA-CASE-LEW-12277-1]	c33 N76-28472	Process for preparing liquid metal electrical contact device	
Direct heating surface combustor		[NASA-CASE-LEW-11978-1]	c33 N77-26385
[NASA-CASE-LEW-11877-1]	c44 N76-28646	Blade retainer assembly	
Production of I-123		[NASA-CASE-LEW-12608-1]	c07 N77-27116
[NASA-CASE-LEW-11390-3]	c25 N76-29379	Hybrid composite laminate structures	
Thrust bearing		[NASA-CASE-LEW-12118-1]	c24 N77-27188
[NASA-CASE-LEW-11949-1]	c37 N76-29588	Shaft seal assembly for high speed and high pressure applications	
Inorganic-organic battery separator for alkaline batteries		[NASA-CASE-LEW-11873-1]	c37 N77-27404
[NASA-CASE-LEW-12649-1]	c44 N76-31674	Bimetallic junctions	
Solar cell surface treatment		[NASA-CASE-LEW-11573-1]	c26 N77-28265
[NASA-CASE-LEW-11330-2]	c44 N76-33624	Sustained arc ignition system	
Ion beam thruster shield		[NASA-CASE-LEW-12444-1]	c33 N77-28385
[NASA-CASE-LEW-12082-1]	c20 N77-10148	Hydrostatic bearing support	
Automotive gas turbine fuel control		[NASA-CASE-LEW-11158-1]	c37 N77-28486
[NASA-CASE-LEW-12785-1]	c37 N77-13426	Corneal seal device	
Dual output variable pitch turbofan actuation system		[NASA-CASE-LEW-12258-1]	c52 N77-28716
[NASA-CASE-LEW-12419-1]	c07 N77-14025	Intra-ocular pressure normalization apparatus	
Silicon nitride coated, plastic covered solar cell		[NASA-CASE-LEW-12955-1]	c52 N77-30736
[NASA-CASE-LEW-11496-1]	c44 N77-14580	Intra-ocular pressure normalization technique and equipment	
Electrically rechargeable REDOX flow cell		[NASA-CASE-LEW-12723-1]	c52 N77-30737
[NASA-CASE-LEW-12220-1]	c44 N77-14581	Solar cell shingle	
Magnetic heat pumping		[NASA-CASE-LEW-12587-1]	c44 N77-31601
[NASA-CASE-LEW-12508-1]	c34 N77-15343	Platform for a swing root turbomachinery blade	
Encapsulated solar cell modules		[NASA-CASE-LEW-12312-1]	c07 N77-32148
[NASA-CASE-LEW-12185-1]	c44 N77-15490	Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby	
Reverse pitch fan with divided splitter		[NASA-CASE-LEW-12053-2]	c23 N77-32244
[NASA-CASE-LEW-12760-1]	c07 N77-17059	Bearing material	
Electronic analog divider		[NASA-CASE-LEW-11930-3]	c24 N77-32249
[NASA-CASE-LEW-11881-1]	c33 N77-17354	Directionally solidified eutectic gamma plus beta nickel-base superalloys	
Method of electrically pre-stressing insulation to provide directional increase in dc potential breakdown		[NASA-CASE-LEW-12906-1]	c26 N77-32279
[NASA-CASE-LEW-12273-1]	c33 N77-17357	Nickel base alloy	
Traveling wave tube circuit		[NASA-CASE-LEW-12270-1]	c26 N77-32280
[NASA-CASE-LEW-12013-1]	c33 N77-17360	Closed loop spray cooling apparatus	
Solar cell collector and method for producing same		[NASA-CASE-LEW-11981-2]	c34 N77-32434
[NASA-CASE-LEW-12552-1]	c44 N77-17564	Magnetic heat pumping	
Improved backwall cell		[NASA-CASE-LEW-12508-2]	c34 N77-32435
[NASA-CASE-LEW-12236-1]	c44 N77-17565		
Apparatus and method for reducing thermal stress in a turbine rotor			

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LW-12050-1] c35 N77-32454

Indicated weak effective pressure instrument (IMFP)
[NASA-CASE-LW-12661-1] c35 N77-32461

Spatial filter for Q-switched lasers
[NASA-CASE-LW-12164-1] c36 N77-32478

Deformable bearing seat
[NASA-CASE-LW-12527-1] c37 N77-32500

Bearing seat usable in a gas turbine engine
[NASA-CASE-LW-12477-1] c37 N77-32501

Cesium thermionic converters having lanthanum hexaboride electrodes
[NASA-CASE-LW-12038-2] c44 N77-32595

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
MANNED SPACECRAFT CENTER, CAPT CANAVERAL, FLA.**

Electrode for biological recording
[NASA-CASE-XMS-02872] c05 N69-21925

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
MANNED SPACECRAFT CENTER, LANGLEY STATION, VA.**

Plural recorder system
[NASA-CASE-XMS-06949] c09 N69-21467

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALA.**

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c14 N69-27431

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c06 N69-39733

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c09 N70-20737

Angular measurement system Patent
[NASA-CASE-XMF-00447] c14 N70-33179

Insulating structure Patent
[NASA-CASE-XMF-00341] c15 N70-33323

Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c03 N70-34157

Pivotal shock absorbing pad assembly
[NASA-CASE-XMF-03856] c31 N70-34159

Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c28 N70-34162

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c31 N70-34176

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c15 N70-34249

Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c14 N70-34298

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c09 N70-34502

Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c21 N70-34539

Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c09 N70-34596

Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c15 N70-34664

Force measuring instrument Patent
[NASA-CASE-XMF-00456] c14 N70-34705

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c14 N70-34794

Electric arc welding Patent
[NASA-CASE-XMF-00392] c15 N70-34814

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c31 N70-36410

Printed cable connector Patent
[NASA-CASE-XMF-00369] c09 N70-36498

Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c31 N70-36654

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c11 N70-36913

Gravity device Patent
[NASA-CASE-XMF-00424] c11 N70-38196

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c28 N70-38710

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c09 N70-38712

Shock suppressing device and method Patent
[NASA-CASE-XMF-00658] c12 N70-38997

Air bearing Patent
[NASA-CASE-XMF-00339] c15 N70-39896

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c14 N70-39898

Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c15 N70-39924

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c07 N70-40202

Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c15 N70-40204

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c14 N70-40238

Missile launch release system Patent
[NASA-CASE-XMF-03198] c30 N70-40353

Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c15 N70-40354

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c15 N70-41371

Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c28 N70-41582

Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c18 N70-41583

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c09 N70-41655

Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c11 N70-41677

Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c15 N70-41829

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c31 N70-41948

Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c14 N70-41994

Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c11 N71-10604

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c14 N71-10616

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c31 N71-10747

Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c03 N71-11055

Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c06 N71-11240

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c07 N71-11298

Harness assembly Patent
[NASA-CASE-MFS-14671] c05 N71-12341

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c08 N71-12504

Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c09 N71-12519

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c09 N71-13486

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c16 N71-15565

Reactance control system Patent
[NASA-CASE-XMF-01598] c21 N71-15583

Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c15 N71-15607

Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c15 N71-15609

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c28 N71-15660

Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c31 N71-15675

Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c31 N71-15689

Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c15 N71-15986

Regenerative braking system Patent
[NASA-CASE-XMF-01096] c10 N71-16030

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c10 N71-16058

Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c31 N71-16222

Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c27 N71-16223

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c20 N71-16340

Serpentuator Patent
[NASA-CASE-XMF-05344] c31 N71-16345

Gravimeter Patent
[NASA-CASE-XMF-05844] c14 N71-17587

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c14 N71-17588

Burst diaphragm flow initiator Patent		Swivel support for gas bearings Patent	
[NASA-CASE-MFS-12915]	c11 N71-17600	[NASA-CASE-XMF-07808]	c15 N71-23812
Vacuum deposition apparatus Patent		Welding skate with computerized control Patent	
[NASA-CASE-XMF-01667]	c15 N71-17647	[NASA-CASE-XMF-07069]	c15 N71-23815
Quick disconnect latch and handle combination Patent		Docking structure for spacecraft Patent	
[NASA-CASE-MFS-11132]	c15 N71-17649	[NASA-CASE-XMF-05941]	c31 N71-23912
Method and apparatus for precision sizing and joining of large diameter tubes Patent		High pressure helium purifier Patent	
[NASA-CASE-XMF-05114]	c15 N71-17650	[NASA-CASE-XMF-06888]	c15 N71-24044
Low temperature flexure fatigue cryostat Patent		Horizontal cryostat for fatigue testing Patent	
[NASA-CASE-MFS-02964]	c14 N71-17659	[NASA-CASE-XMF-10968]	c14 N71-24234
Precision stepping drive Patent		Method for leakage testing of tanks Patent	
[NASA-CASE-MFS-14772]	c15 N71-17692	[NASA-CASE-XMF-02392]	c32 N71-24285
Multi-mission module Patent		Internal flare angle gauge Patent	
[NASA-CASE-XMF-01543]	c31 N71-17730	[NASA-CASE-XMF-04415]	c14 N71-24693
Ratchet mechanism Patent		Pulse rise time and amplitude detector Patent	
[NASA-CASE-MFS-12805]	c15 N71-17805	[NASA-CASE-XMF-08804]	c09 N71-24717
Method of making impurity-type semiconductor electrical contacts Patent		System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent	
[NASA-CASE-XMF-01016]	c26 N71-17818	[NASA-CASE-XMF-06892]	c09 N71-24805
Apparatus for the determination of the existence or non-existence of a bonding between two members Patent		Power system with heat pipe liquid coolant lines Patent	
[NASA-CASE-MFS-13686]	c15 N71-18132	[NASA-CASE-MFS-14114-2]	c09 N71-24807
Static inverters which sum a plurality of waves Patent		Magnetomotive metal working device Patent	
[NASA-CASE-XMF-00663]	c08 N71-18752	[NASA-CASE-XMF-03793]	c15 N71-24833
Space environmental work simulator Patent		Apparatus for determining the deflection of an electron beam impinging on a target Patent	
[NASA-CASE-XMF-07488]	c11 N71-18773	[NASA-CASE-XMF-06617]	c09 N71-24843
Space manufacturing machine Patent		Transistor servo system including a unique differential amplifier circuit Patent	
[NASA-CASE-MFS-20410]	c15 N71-19214	[NASA-CASE-XMF-05195]	c10 N71-24861
Extensometer Patent		RC rate generator for slow speed measurement Patent	
[NASA-CASE-XMF-04680]	c15 N71-19489	[NASA-CASE-XMF-02966]	c10 N71-24863
Mechanical simulator of low gravity conditions Patent		Method and apparatus for precision sizing and joining of large diameter tubes Patent	
[NASA-CASE-MFS-10555]	c11 N71-19494	[NASA-CASE-XMF-05114-3]	c15 N71-24865
Weld control system using thermocouple wire Patent		Duct coupling for single-handed operation Patent	
[NASA-CASE-MFS-06074]	c15 N71-20393	[NASA-CASE-MFS-20395]	c15 N71-24903
Evaporant source for vapor deposition Patent		Brushless direct current tachometer Patent	
[NASA-CASE-XMF-06065]	c15 N71-20395	[NASA-CASE-MFS-20385]	c09 N71-24904
Satellite despin device Patent		Self-lubricating gears and other mechanical parts Patent	
[NASA-CASE-XMF-08523]	c31 N71-20396	[NASA-CASE-MFS-14971]	c15 N71-24984
Method of coating circuit paths on printed circuit boards with solder Patent		Pulse width inverter Patent	
[NASA-CASE-XMF-01599]	c09 N71-20705	[NASA-CASE-MFS-10068]	c10 N71-25139
Elastomeric silazane polymers and process for preparing the same Patent		Isothermal cover with thermal reservoirs Patent	
[NASA-CASE-XMF-04133]	c06 N71-20717	[NASA-CASE-MFS-20355]	c33 N71-25353
Method of producing alternating ether siloxane copolymers Patent		Storage container for electronic devices Patent	
[NASA-CASE-XMF-02584]	c06 N71-20905	[NASA-CASE-MFS-20075]	c09 N71-26133
Honeycomb panel and method of making same Patent		Method and apparatus for precision sizing and joining of large diameter tubes Patent	
[NASA-CASE-XMF-01402]	c18 N71-21651	[NASA-CASE-XMF-05114-2]	c15 N71-26148
Portable milling tool Patent		Filter system for control of outgas contamination in vacuum Patent	
[NASA-CASE-XMF-03511]	c15 N71-22799	[NASA-CASE-MFS-14711]	c15 N71-26185
Energy absorbing device Patent		Image magnification adapter for cameras Patent	
[NASA-CASE-XMF-10040]	c15 N71-22877	[NASA-CASE-XMF-03844-1]	c14 N71-26474
Continuous detonation reaction engine Patent		Thickness measuring and injection device Patent	
[NASA-CASE-XMF-06926]	c28 N71-22983	[NASA-CASE-MFS-20261]	c14 N71-27005
Adaptive tracking notch filter system Patent		Personal propulsion unit Patent	
[NASA-CASE-XMF-01892]	c10 N71-22986	[NASA-CASE-MFS-20130]	c28 N71-27585
Meteorological balloon Patent		Power system with heat pipe liquid coolant lines Patent	
[NASA-CASE-XMF-04163]	c02 N71-23007	[NASA-CASE-MFS-14114]	c33 N71-27862
Continuous turning slip ring assembly Patent		Method of making shielded flat cable Patent	
[NASA-CASE-XMF-01049]	c15 N71-23049	[NASA-CASE-MFS-13687]	c09 N71-28691
Automatic welding speed controller Patent		A dc motor speed control system Patent	
[NASA-CASE-XMF-01730]	c15 N71-23050	[NASA-CASE-MFS-14610]	c09 N71-28886
Positive dc to positive dc converter Patent		Cryogenic thermal insulation Patent	
[NASA-CASE-XMF-14301]	c09 N71-23188	[NASA-CASE-XMF-05046]	c33 N71-28892
Zero gravity apparatus Patent		Method of coating through-holes Patent	
[NASA-CASE-XMF-06515]	c14 N71-23227	[NASA-CASE-XMF-05999]	c15 N71-29032
Positive dc to negative dc converter Patent		Response analyzers for sensors Patent	
[NASA-CASE-XMF-08217]	c03 N71-23239	[NASA-CASE-MFS-11204]	c14 N71-29134
Evacuation port seal Patent		Current regulating voltage divider	
[NASA-CASE-XMF-03290]	c15 N71-23256	[NASA-CASE-MFS-20935]	c09 N71-34212
Azimuth laying system Patent		Nuclear mass flowmeter	
[NASA-CASE-XMF-01669]	c21 N71-23289	[NASA-CASE-MFS-20485]	c14 N72-11365
Electron beam instrument for measuring electric fields Patent		Fine adjustment mount	
[NASA-CASE-XMF-10289]	c14 N71-23699	[NASA-CASE-MFS-20249]	c15 N72-11386
Anemometer with braking mechanism Patent		Method of making foamed materials in zero gravity	
[NASA-CASE-XMF-05224]	c14 N71-23726	[NASA-CASE-XMF-09902]	c15 N72-11387
Apparatus for testing a pressure responsive instrument Patent		Air bearing assembly for curved surfaces	
[NASA-CASE-XMF-04134]	c14 N71-23755	[NASA-CASE-MFS-20423]	c15 N72-11388
Electric welding torch Patent		Stud-bonding gun	
[NASA-CASE-XMF-02330]	c15 N71-23798	[NASA-CASE-MFS-20299]	c15 N72-11392
		Apparatus for obtaining isotropic irradiation of a specimen	

[NASA-CASE-MFS-20095]	c24 N72-11595	Underwater space suit pressure control regulator	[NASA-CASE-MFS-20332-2]	c05 N73-25125
Wind tunnel test section		Maxometers (peak wind speed anemometers)	[NASA-CASE-MFS-20916]	c14 N73-25460
[NASA-CASE-MFS-20509]	c11 N72-17183	Monitoring deposition of films	[NASA-CASE-MFS-20675]	c26 N73-26751
Multiple image storing system for high speed		Docking structure for spacecraft	[NASA-CASE-MFS-20863]	c31 N73-26876
projectile holoigraphy		Wide temperature range electronic device with		
[NASA-CASE-MFS-20596]	c14 N72-17324	lead attachment	[NASA-CASE-ERC-10224-2]	c09 N73-27150
Method of manufacturing semiconductor devices		Restraint system for ergometer	[NASA-CASE-MFS-21046-1]	c14 N73-27377
using refractory dielectrics		Apparatus and method for skin packaging articles	[NASA-CASE-MFS-20855]	c15 N73-27405
[NASA-CASE-XFR-08476-1]	c26 N72-17820	Ergometer	[NASA-CASE-MFS-21109-1]	c05 N73-27941
Underwater space suit pressure control regulator		Tilting table for ergometer and for other		
[NASA-CASE-MFS-20332]	c05 N72-20097	biomedical devices	[NASA-CASE-MFS-21010-1]	c05 N73-30078
Apparatus for making diamcrds		Measurement system	[NASA-CASE-MFS-20658-1]	c14 N73-30386
[NASA-CASE-MFS-20698]	c15 N72-20446	Collimator of multiple plates with axially		
An airlock		aligned identical random arrays of apertures	[NASA-CASE-MFS-20546-2]	c14 N73-30389
[NASA-CASE-MFS-20922]	c31 N72-20840	Holographic thin film analyzer	[NASA-CASE-MFS-20823-1]	c16 N73-30476
Photoetching of metal-oxide layers		Semiconductor surface protection material	[NASA-CASE-ERC-10339-1]	c18 N73-30532
[NASA-CASE-ERC-10108]	c06 N72-21094	Polymerizable disiloxanes having in-chain		
Liquid aerosol dispenser		perfluoralkyl groups	[NASA-CASE-MFS-20979-2]	c06 N73-32030
[NASA-CASE-MFS-20829]	c12 N72-21310	Redundant speed control for brushless Hall		
Optical probing of supersonic flows with		effect motor	[NASA-CASE-MFS-20207-1]	c09 N73-32107
statistical correlation		Induction motor control system with voltage		
[NASA-CASE-MFS-20642]	c14 N72-21407	controlled oscillator circuit	[NASA-CASE-MFS-21465-1]	c10 N73-32145
Mechanically actuated triggered band		Synthesis of superconducting compounds by		
[NASA-CASE-MFS-20413]	c15 N72-21463	explosive compaction of powders	[NASA-CASE-MFS-20861-1]	c18 N73-32437
Hermetically sealed elbow actuator		Ultrasonic scanner for radial and flat panels	[NASA-CASE-MFS-20335-1]	c35 N74-10415
[NASA-CASE-MFS-14710]	c09 N72-22195	Digital computing cardiometer	[NASA-CASE-MFS-20284-1]	c52 N74-12778
Shielded flat cable		Integrated circuit package with lead structure		
[NASA-CASE-MFS-13687-2]	c09 N72-22198	and method of preparing the same	[NASA-CASE-MFS-21374-1]	c33 N74-12951
Shock wave convergence apparatus		Vee-notching device	[NASA-CASE-MFS-20730-1]	c39 N74-13131
[NASA-CASE-MFS-20890]	c14 N72-22439	Ultrasonic scanning system for in-place		
Bonding of reinforced Teflon to metals		inspection of brazed tube joints	[NASA-CASE-MFS-20767-1]	c38 N74-15130
[NASA-CASE-MFS-20482]	c15 N72-22492	Method and apparatus for checking the stability		
Inorganic thermal control coatings		of a setup for making reflection type holoigrams	[NASA-CASE-MFS-21455-1]	c35 N74-15146
[NASA-CASE-MFS-20011]	c18 N72-22566	Method and apparatus for nondestructive testing	[NASA-CASE-MFS-21233-1]	c38 N74-15395
High temperature furnace for melting		Real time moving scene holographic camera system	[NASA-CASE-MFS-21087-1]	c35 N74-17153
materials		Nonflammable coating compositions	[NASA-CASE-MFS-20486-2]	c27 N74-17283
[NASA-CASE-MFS-2C710]	c11 N72-23215	Metering gun for dispensing precisely measured		
Siloxane containing epoxide compounds		charges of fluid	[NASA-CASE-MFS-21163-1]	c54 N74-17853
[NASA-CASE-MFS-13994-2]	c06 N72-25148	Omnidirectional wheel	[NASA-CASE-MFS-21309-1]	c37 N74-18125
Silphenylenesiloxane polymers having		Reinforced polyquinoxaline gasket and method of		
in-chain		preparing the same	[NASA-CASE-MFS-21364-1]	c37 N74-18126
perfluoralkyl groups		Manual actuator	[NASA-CASE-MFS-21481-1]	c37 N74-18127
[NASA-CASE-MFS-20979]	c06 N72-25151	Cryogenic gyroscope housing	[NASA-CASE-MFS-21136-1]	c35 N74-18323
Emergency lunar communications system		Automatic frequency control for FM transmitter	[NASA-CASE-MFS-21540-1]	c32 N74-19790
[NASA-CASE-MFS-21042]	c07 N72-25171	Microwave power transmission system wherein		
Lead attachment to high temperature devices		level of transmitted power is controlled by		
[NASA-CASE-ERC-10224]	c09 N72-25261	reflections from receiver	[NASA-CASE-MFS-21470-1]	c44 N74-19870
Device for measuring bearing preload		Reduced gravity fecal collector seat and urinal	[NASA-CASE-MFS-22102-1]	c54 N74-20725
[NASA-CASE-MFS-20434]	c11 N72-25288	Metabolic analyzer	[NASA-CASE-MFS-21415-1]	c52 N74-20728
Altitude simulation chamber for rocket engine		Automatic quadrature control and measuring system	[NASA-CASE-MFS-21660-1]	c35 N74-21017
testing		Thiophenyl ether disiloxanes and trisiloxanes		
[NASA-CASE-MFS-20620]	c11 N72-27262	useful as lubricant fluids	[NASA-CASE-MFS-22411-1]	c37 N74-21058
Fixture for supporting articles during vibration				
tests				
[NASA-CASE-MFS-20523]	c14 N72-27412			
Electrical connector				
[NASA-CASE-MFS-20757]	c09 N72-28225			
Remote control manipulator for zero gravity				
environment				
[NASA-CASE-MFS-14405]	c15 N72-28495			
Thermal compensating structural member				
[NASA-CASE-MFS-20433]	c15 N72-28496			
Semiconductor transducer device				
[NASA-CASE-ERC-10087-2]	c14 N72-31446			
Coaxial high density, hypervelocity plasma				
generator and accelerator with ionizable metal				
disc				
[NASA-CASE-MFS-20589]	c25 N72-32688			
Process for the preparation of brushite crystals				
[NASA-CASE-ERC-10338]	c04 N72-33072			
Adjustable force probe				
[NASA-CASE-MFS-20760]	c14 N72-33377			
Polyimide resin-fiberglass cloth laminates for				
printed circuit boards				
[NASA-CASE-MFS-20408]	c18 N73-12604			
Differential pressure control				
[NASA-CASE-MFS-14216]	c14 N73-13418			
Redundant hydraulic control system for actuators				
[NASA-CASE-MFS-20944]	c15 N73-13466			
Device and method for determining X ray				
reflection efficiency of optical surfaces				
[NASA-CASE-MFS-20243]	c23 N73-13662			
Process for making diamonds				
[NASA-CASE-MFS-20698-2]	c15 N73-19457			
Test stand system for vacuum chambers				
[NASA-CASE-MFS-21362]	c11 N73-20267			
Material fatigue testing system				
[NASA-CASE-MFS-20673]	c14 N73-20476			
Ratemeter				
[NASA-CASE-MFS-20418]	c14 N73-24473			

Airlock				Apparatus for calibrating an image dissector tube	
[NASA-CASE-MFS-20922-1]	c18	N74-22136		[NASA-CASE-MFS-22208-1]	c33 N75-26244
Low distortion automatic phase control circuit				Method of determining bond quality of power	
[NASA-CASE-MFS-21671-1]	c33	N74-22885		transistors attached to substrates	
Two speed drive system				[NASA-CASE-MFS-21931-1]	c37 N75-26372
[NASA-CASE-MFS-20645-1]	c37	N74-23070		Anti-gravity device	
Insert facing tool				[NASA-CASE-MFS-22758-1]	c70 N75-26789
[NASA-CASE-MFS-21485-1]	c37	N74-25968		Brazing alloy binder	
LC-oscillator with automatic stabilized				[NASA-CASE-MFS-05868]	c26 N75-27125
amplitude via bias current control				Brazing alloy composition	
[NASA-CASE-MFS-21698-1]	c33	N74-26732		[NASA-CASE-MFS-06053]	c26 N75-27126
Device for monitoring a change in mass in				Refractory porcelain enamel passive control	
varying gravimetric environments				coating for high temperature alloys	
[NASA-CASE-MFS-21556-1]	c35	N74-26945		[NASA-CASE-MFS-22324-1]	c27 N75-27160
Holography utilizing surface plasmon resonances				Real time, large volume, moving scene	
[NASA-CASE-MFS-22040-1]	c35	N74-26946		holographic camera system	
Electrophoretic sample insertion				[NASA-CASE-MFS-22537-1]	c35 N75-27328
[NASA-CASE-MFS-21395-1]	c25	N74-26948		Method and apparatus for vibration analysis	
Sprag solenoid brake				utilizing the Mossbauer effect	
[NASA-CASE-MFS-21846-1]	c37	N74-26976		[NASA-CASE-MFS-05882]	c35 N75-27329
Device for configuring multiple leads				Method of preparing graphite reinforced aluminum	
[NASA-CASE-MFS-22133-1]	c33	N74-26977		composite	
Thrust-actuating mounting				[NASA-CASE-MFS-21077-1]	c24 N75-28135
[NASA-CASE-MFS-21680-1]	c18	N74-27397		Carbon monoxide monitor	
Battery testing device				[NASA-CASE-MFS-22060-1]	c35 N75-29380
[NASA-CASE-MFS-20761-1]	c44	N74-27519		Perfluoro alkylene dioxy-bis-(4-phthalic	
Apparatus for establishing flow of a fluid mass				anhydrides and	
having a known velocity				oxy-bis-(perfluoroalkyleneoxyphthalic	
[NASA-CASE-MFS-21424-1]	c34	N74-27730		anhydrides	
Apparatus for conducting flow electrophoresis in				[NASA-CASE-MFS-22356-1]	c23 N75-30256
the substantial absence of gravity				Integrable power gyrator	
[NASA-CASE-MFS-21394-1]	c34	N74-27744		[NASA-CASE-MFS-22342-1]	c33 N75-30428
Steady state thermal radiometers				Isolated output system for a class D	
[NASA-CASE-MFS-21108-1]	c34	N74-27861		switching-mode amplifier	
Conductive elastomeric extensometer				[NASA-CASE-MFS-21616-1]	c33 N75-30429
[NASA-CASE-MFS-21049-1]	c52	N74-27864		Solar energy power system	
Device for measuring tensile forces				[NASA-CASE-MFS-21628-1]	c44 N75-32581
[NASA-CASE-MFS-21728-1]	c35	N74-27865		System for enhancing tool-exchange capabilities	
Three mirror glancing incidence system for X-ray				of a portable wrench	
telescope				[NASA-CASE-MFS-22283-1]	c37 N75-33395
[NASA-CASE-MFS-21372-1]	c74	N74-27866		An improved rotatable mass for a flywheel	
Flame detector operable in presence of proton				[NASA-CASE-MFS-23051-1]	c37 N76-13500
radiation				Projection system for display of parallax and	
[NASA-CASE-MFS-21577-1]	c19	N74-29410		perspective	
Integrated I-channel MOS gyrator				[NASA-CASE-MFS-23194-1]	c74 N76-13909
[NASA-CASE-MFS-22343-1]	c33	N74-34638		Externally supported internally stabilized	
System for depositing thin films				flexible duct joint	
[NASA-CASE-MFS-20775-1]	c31	N75-12161		[NASA-CASE-MFS-19194-1]	c37 N76-14460
Ultrasonic bone densitometer				Quick disconnect filter coupling	
[NASA-CASE-MFS-20994-1]	c35	N75-12271		[NASA-CASE-MFS-22323-1]	c37 N76-14463
Strain gauge ambiguity sensor for segmented				Panel for selectively absorbing solar thermal	
mirror active optical system				energy and the method of producing said panel	
[NASA-CASE-MFS-20506-1]	c35	N75-12273		[NASA-CASE-MFS-22562-1]	c44 N76-14595
Orthotic air joint				Rapid activation and checkout device for batteries	
[NASA-CASE-MFS-21611-1]	c54	N75-12616		[NASA-CASE-MFS-22749-1]	c44 N76-14601
Automatically operable self-leveling				Two stage light gas-plasma projectile accelerator	
load table				[NASA-CASE-MFS-22287-1]	c75 N76-14931
[NASA-CASE-MFS-22039-1]	c09	N75-12968		Polyimides of ether-linked aryl tetracarboxylic	
Phase-locked servo system				dianhydrides	
[NASA-CASE-MFS-22673-1]	c33	N75-13139		[NASA-CASE-MFS-22355-1]	c23 N76-15268
Self-energized plasma compressor				Remotely operable articulated manipulator	
[NASA-CASE-MFS-22145-1]	c75	N75-13625		[NASA-CASE-MFS-22707-1]	c37 N76-15457
Clear air turbulence detector				Remote manipulator system	
[NASA-CASE-MFS-21244-1]	c36	N75-15028		[NASA-CASE-MFS-22022-1]	c37 N76-15460
Variable frequency inverter for ac induction				Thermoelectric power system	
motors with torque, speed and braking control				[NASA-CASE-MFS-22002-1]	c44 N76-16612
[NASA-CASE-MFS-22088-1]	c33	N75-15874		Self-energized plasma compressor	
Leak detector				[NASA-CASE-MFS-22145-2]	c75 N76-17951
[NASA-CASE-MFS-21761-1]	c35	N75-15931		Device for measuring the ferrite content in an	
Ergometer calibrator				austenitic stainless-steel weld	
[NASA-CASE-MFS-21045-1]	c35	N75-15932		[NASA-CASE-MFS-22907-1]	c26 N76-18257
Space vehicle				Heat transfer device	
[NASA-CASE-MFS-22734-1]	c18	N75-19329		[NASA-CASE-MFS-22938-1]	c34 N76-18374
Meter for use in detecting tension in straps				Holographic motion picture camera with Doppler	
having predetermined elastic characteristics				shift compensation	
[NASA-CASE-MFS-22189-1]	c35	N75-19615		[NASA-CASE-MFS-22517-1]	c35 N76-18402
Multiplate focusing collimator				Method of peening and portable peening gun	
[NASA-CASE-MFS-20932-1]	c35	N75-19616		[NASA-CASE-MFS-23047-1]	c37 N76-18454
Internally supported flexible duct joint				Semiconductor projectile impact detector	
[NASA-CASE-MFS-19193-1]	c37	N75-19686		[NASA-CASE-MFS-23008-1]	c35 N76-19405
Pseudo-noise test set for communication system				Mixing insert for foam dispensing apparatus	
evaluation				[NASA-CASE-MFS-20607-1]	c37 N76-19436
[NASA-CASE-MFS-22671-1]	c35	N75-21582		Traffic survey system	
Device for use in loading tension members				[NASA-CASE-MFS-22631-1]	c66 N76-19888
[NASA-CASE-MFS-21488-1]	c14	N75-24794		Electronic optical transfer function analyzer	
Holographic system for nondestructive testing				[NASA-CASE-MFS-21672-1]	c74 N76-19935
[NASA-CASE-MFS-21704-1]	c35	N75-25124		System for imposing directional stability on a	
Hole cutter				rocket-propelled vehicle	
[NASA-CASE-MFS-22649-1]	c37	N75-25186		[NASA-CASE-MFS-21311-1]	c20 N76-21275

Filtering device			Actuator device for artificial leg	
[NASA-CASE-MFS-22729-1]	c32	N76-21366	[NASA-CASE-MFS-23225-1]	c52 N77-14735
Translatory shock absorber for attitude sensors			System for the measurement of ultra-low stray	
[NASA-CASE-MFS-22905-1]	c19	N76-22284	light levels	
Device for installing rocket engines			[NASA-CASE-MFS-23513-1]	c74 N77-14842
[NASA-CASE-MFS-19220-1]	c20	N76-22296	Sprayable low density ablator	
Deployable flexible tunnel			[NASA-CASE-MFS-23506-1]	c24 N77-15105
[NASA-CASE-MFS-22636-1]	c37	N76-22540	Frequency modulated oscillator	
Solar energy absorber			[NASA-CASE-MFS-23181-1]	c33 N77-17351
[NASA-CASE-MFS-22743-1]	c44	N76-22657	Method of and means for testing a tape	
Apparatus for reducing aerodynamic noise in a			record/playback system	
wind tunnel			[NASA-CASE-MFS-22671-2]	c35 N77-17426
[NASA-CASE-MFS-23099-1]	c09	N76-23273	Simulator for practicing the mating of an	
Charge injection method and apparatus of			observer-controlled object with a target	
producing large area electrets			[NASA-CASE-MFS-23052-2]	c14 N77-18179
[NASA-CASE-MFS-23186-1]	c33	N76-23483	Notch filter	
Solar energy power system			[NASA-CASE-MFS-23303-1]	c32 N77-18307
[NASA-CASE-MFS-21628-2]	c44	N76-23675	Guide for a typewriter	
Plasma cleaning device			[NASA-CASE-MFS-15218-1]	c37 N77-19457
[NASA-CASE-MFS-22906-1]	c75	N76-24001	Direct current transformer	
Hybrid holographic non-destructive test system			[NASA-CASE-MFS-23659-1]	c33 N77-20341
[NASA-CASE-MFS-23114-1]	c35	N76-24529	Mount for continuously orienting a collector	
Solar energy trap			dish in a system adapted to perform both	
[NASA-CASE-MFS-22744-1]	c44	N76-24696	diurnal and seasonal solar tracking	
Failure detection and control means for improved			[NASA-CASE-MFS-23267-1]	c35 N77-20401
drift performance of a gimballed platform system			Apparatus for automatically spraying a coating	
[NASA-CASE-MFS-23551-1]	c04	N76-26175	material	
Field effect transistor and method of			[NASA-CASE-MFS-23506-2]	c37 N77-20441
construction thereof			Emergency descent device	
[NASA-CASE-MFS-23312-1]	c33	N76-26394	[NASA-CASE-MFS-23074-1]	c54 N77-21844
Method of post-process intensification of images			Device for tensioning test specimens within an	
on photographic films and plates			hermetically sealed chamber	
[NASA-CASE-MFS-23461-1]	c35	N76-26449	[NASA-CASE-MFS-23281-1]	c35 N77-22450
Method and means for testing a			Combined docking and grasping device	
glancing-incidence mirror system			[NASA-CASE-MFS-23088-1]	c37 N77-23483
[NASA-CASE-MFS-22409-2]	c74	N76-26988	Computerized system for translating a torch head	
Lead-oxygen dc power supply system having a			[NASA-CASE-MFS-23620-1]	c37 N77-24497
closed loop oxygen and water system			Method of growing composites of the type	
[NASA-CASE-MFS-23059-1]	c44	N76-27664	exhibiting the Soret effect	
Power factor control system for ac induction			[NASA-CASE-MFS-22926-1]	c24 N77-27187
motors			Multilevel metallization method for fabricating	
[NASA-CASE-MFS-23280-1]	c33	N76-28471	a metal oxide semiconductor device	
Wrist joint assembly			[NASA-CASE-MFS-23541-1]	c33 N77-27308
[NASA-CASE-MFS-23311-1]	c37	N76-28554	Method for measuring biaxial stress in a body	
Germanium coated microbridge and method			subjected to stress inducing loads	
[NASA-CASE-MFS-23274-1]	c76	N76-30084	[NASA-CASE-MFS-23299-1]	c39 N77-28511
Dual mode solid state power switch			Three-mirror telescope	
[NASA-CASE-MFS-22880-1]	c33	N76-31410	[NASA-CASE-MFS-23675-1]	c74 N77-28937
Thermal energy storage system			Method for attaching a fused-quartz mirror to a	
[NASA-CASE-MFS-23167-1]	c44	N76-31667	conductive metal substrate	
An improved method and apparatus for use in			[NASA-CASE-MFS-23405-1]	c26 N77-29260
examining the lattice of a semiconductor wafer			Method of preparing zinc orthotitanate pigment	
by X-ray diffraction			[NASA-CASE-MFS-23345-1]	c27 N77-30237
[NASA-CASE-MFS-23315-1]	c76	N76-32029	Accumulator	
Aircraft-mounted crash-activated transmitter			[NASA-CASE-MFS-19287-1]	c34 N77-30399
device			Tachometer	
[NASA-CASE-MFS-16609-3]	c03	N76-32140	[NASA-CASE-MFS-23175-1]	c35 N77-30436
FM/CW radar system			Horizontally mounted solar collector	
[NASA-CASE-MFS-22234-1]	c32	N76-33364	[NASA-CASE-MFS-23349-1]	c44 N77-30613
Velocity measurement system			Apparatus for assembling space structure	
[NASA-CASE-MFS-23363-1]	c35	N76-33469	[NASA-CASE-MFS-23579-1]	c12 N77-31213
Multiple in-line docking capability for rotating			Dual mode solid state power switch	
space stations			[NASA-CASE-MFS-22880-2]	c33 N77-31407
[NASA-CASE-MFS-20855-1]	c15	N77-10112	Real time reflectometer	
Attitude control system			[NASA-CASE-MFS-23118-1]	c35 N77-31465
[NASA-CASE-MFS-22787-1]	c15	N77-10113	Aluminum or copper substrate panel for selective	
Heat exchanger			absorption of solar energy and the method of	
[NASA-CASE-MFS-22991-1]	c34	N77-10463	producing said panel	
Focused laser Doppler velocimeter			[NASA-CASE-MFS-23518-1]	c44 N77-31610
[NASA-CASE-MFS-23178-1]	c35	N77-10493	Stainless steel panel for selective absorption	
Laser extensometer			of solar energy and the method of producing	
[NASA-CASE-MFS-19259-1]	c36	N77-10516	said panel	
Photovoltaic cell array			[NASA-CASE-MFS-23518-2]	c44 N77-31611
[NASA-CASE-MFS-22458-1]	c44	N77-10635	Method of crystallization	
Wind measurement system			[NASA-CASE-MFS-23001-1]	c76 N77-32919
[NASA-CASE-MFS-23362-1]	c47	N77-10753	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.	
Tetherline system for orbiting satellites			PASADENA OFFICE, CALIF.	
[NASA-CASE-MFS-23564-1]	c13	N77-11079	Phase control circuits using frequency	
Spherical bearing			multiplications for phased array antennas	
[NASA-CASE-MFS-23447-1]	c37	N77-11403	[NASA-CASE-ERC-10285]	c10 N73-16206
General purpose rocket furnace			Method of forming difunctional polyisobutylene	
[NASA-CASE-MFS-23460-1]	c09	N77-12070	[NASA-CASE-NFO-10893]	c27 N73-22710
Mechanical thermal motor			Radiation and particle detector and amplifier	
[NASA-CASE-MFS-23062-1]	c37	N77-12402	[NASA-CASE-NFO-12128-1]	c14 N73-32317
Method and apparatus for reconditioning			Expandable space frames	
nickel-cadmium batteries			[NASA-CASE-ERC-10365-1]	c31 N73-32749
[NASA-CASE-MFS-23270-1]	c44	N77-12511	Use of thin film light detector	
Solid-state current transformer			[NASA-CASE-NFO-11432-2]	c35 N74-15090
[NASA-CASE-MFS-22560-1]	c33	N77-14335		

Temperature compensated digital inertial sensor [NASA-CASE-NPO-13044-1]	c35 N74-15094	Motor run-up system [NASA-CASE-NPO-13374-1]	c33 N75-19524
Compact hydrogenator [NASA-CASE-NPO-11682-1]	c35 N74-15127	Frequency scanning particle size spectrometer [NASA-CASE-NPO-13606-1]	c35 N75-19627
Short range laser obstacle detector [NASA-CASE-NPO-11856-1]	c36 N74-15145	Particle size spectrometer and refractometer [NASA-CASE-NPO-13614-1]	c35 N75-19628
System for stabilizing cable phase delay utilizing a coaxial cable under pressure [NASA-CASE-NPO-13138-1]	c33 N74-17927	Deep trap, laser activated image converting system [NASA-CASE-NPO-13131-1]	c36 N75-19652
Banded transformer cores [NASA-CASE-NPO-11966-1]	c33 N74-17928	Multitarget sequential sputtering apparatus [NASA-CASE-NPO-13345-1]	c37 N75-19684
Inverter ratio failure detector [NASA-CASE-NPO-13160-1]	c35 N74-18090	Method and apparatus for providing a servodrive signal in a high speed stepping interferometer [NASA-CASE-NPO-13569-1]	c35 N75-21600
Heat transfer device [NASA-CASE-NPO-11120-1]	c34 N74-18552	Motion restraining device [NASA-CASE-NPO-13619-1]	c37 N75-22748
Storage battery comprising negative plates of a wedge shaped configuration [NASA-CASE-NPO-11806-1]	c44 N74-19693	Wide angle sun sensor [NASA-CASE-NPO-13327-1]	c35 N75-23910
Gated compressor, distortionless signal limiter [NASA-CASE-NPO-11820-1]	c32 N74-19788	Material suspension within an acoustically excited resonant chamber [NASA-CASE-NPO-13263-1]	c12 N75-24774
Apparatus for scanning the surface of a cylindrical body [NASA-CASE-NPO-11861-1]	c36 N74-20009	Heat operated cryogenic electrical generator [NASA-CASE-NPO-13303-1]	c20 N75-24837
Decision feedback loop for tracking a polyphase modulated carrier [NASA-CASE-NPO-13103-1]	c32 N74-20811	System for interference signal nulling by polarization adjustment [NASA-CASE-NPO-13140-1]	c32 N75-24982
Optically actuated two position mechanical mover [NASA-CASE-NPO-13105-1]	c37 N74-21060	Heat detection and compositions and devices therefor [NASA-CASE-NPO-10764-2]	c35 N75-25122
Flow control valve [NASA-CASE-NPO-11951-1]	c37 N74-21065	Servo-controlled intravitral microscope system [NASA-CASE-NPO-13214-1]	c35 N75-25123
Thin film gauge [NASA-CASE-NPO-10617-1]	c35 N74-22095	Ultrasonically bonded valve assembly [NASA-CASE-NPO-13360-1]	c37 N75-25185
High isolation RF signal selection switches [NASA-CASE-NPO-13081-1]	c33 N74-22814	Vehicle locating system utilizing AM broadcasting station carriers [NASA-CASE-NPO-13217-1]	c32 N75-26194
Single reflector interference spectrometer and drive system therefor [NASA-CASE-NPO-11932-1]	c35 N74-23040	Asynchronous, multiplexing, single line transmission and recovery data system [NASA-CASE-NPO-13321-1]	c32 N75-26195
Scanning nozzle plating system [NASA-CASE-NPO-11758-1]	c31 N74-23065	Brazing alloy [NASA-CASE-NPO-03878]	c26 N75-27127
Rock sampling [NASA-CASE-NPO-10007-1]	c46 N74-23068	Very high intensity light source using a cathode ray tube [NASA-CASE-NPO-01296]	c33 N75-27250
Rock sampling [NASA-CASE-NPO-09755]	c46 N74-23069	Fluorescence detector for monitoring atmospheric pollutants [NASA-CASE-NPO-13231-1]	c45 N75-27585
Miniature multichannel bi-telemeter system [NASA-CASE-NPO-13065-1]	c52 N74-26625	Cooperative multi-axis sensor for teleoperation of article manipulating apparatus [NASA-CASE-NPO-13386-1]	c54 N75-27758
Dispensing targets for ion beam particle generators [NASA-CASE-NPO-13112-1]	c73 N74-26767	Heat sterilizable patient ventilator [NASA-CASE-NPO-13313-1]	c54 N75-27761
Optically detonated explosive device [NASA-CASE-NPO-11743-1]	c28 N74-27425	Low cost solar energy collection system [NASA-CASE-NPO-13579-1]	c44 N75-28519
High voltage, high current Schottky barrier solar cell [NASA-CASE-NPO-13482-1]	c44 N74-30448	Method of heat treating age-hardenable alloys [NASA-CASE-NPO-01311]	c26 N75-29236
Coherent receiver employing nonlinear coherence detection for carrier tracking [NASA-CASE-NPO-11921-1]	c32 N74-30523	Satellite aided vehicle avoidance system [NASA-CASE-NPO-10419-1]	c03 N75-30132
Digital servo control of random sound test excitation [NASA-CASE-NPO-11623-1]	c71 N74-31148	Refrigerated coaxial coupling [NASA-CASE-NPO-13504-1]	c33 N75-30430
Capacitance multiplier and filter synthesizing network [NASA-CASE-NPO-11948-1]	c33 N74-32712	Electric power generation system directory for laser power [NASA-CASE-NPO-13308-1]	c36 N75-30524
Apparatus for forming drive belts [NASA-CASE-NPO-13205-1]	c31 N74-32917	Subminiature insertable force transducer [NASA-CASE-NPO-13423-1]	c33 N75-31329
Tool for use in lifting pin supported objects [NASA-CASE-NPO-13157-1]	c37 N74-32918	Symmetrical odd-modulus frequency divider [NASA-CASE-NPO-13426-1]	c33 N75-31330
Preparing oxidizer coated metal fuel particles [NASA-CASE-NPO-11975-1]	c28 N74-33209	Stored charge transistor [NASA-CASE-NPO-11156-2]	c33 N75-31331
Geneva mechanism [NASA-CASE-NPO-13281-1]	c37 N75-13266	Doped Josephson tunneling junction for use in a sensitive IR detector [NASA-CASE-NPO-13348-1]	c33 N75-31332
Amino acid analysis [NASA-CASE-NPO-12130-1]	c25 N75-14844	Acoustically controlled distributed feedback laser [NASA-CASE-NPO-13175-1]	c36 N75-31427
Method of producing a storage bulb for an atomic hydrogen laser [NASA-CASE-NPO-13050-1]	c36 N75-15029	Inert gas metallic vapor laser [NASA-CASE-NPO-13449-1]	c36 N75-32441
Combined pressure regulator and shutoff valve [NASA-CASE-NPO-13201-1]	c37 N75-15050	High temperature resistant cermet and ceramic compositions [NASA-CASE-NPO-13690-1]	c27 N76-13294
Reduction of blood serum cholesterol [NASA-CASE-NPO-12119-1]	c52 N75-15270	Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions [NASA-CASE-NPO-12122-1]	c24 N76-14203
Simultaneous acquisition of tracking data from two stations [NASA-CASE-NPO-13292-1]	c32 N75-15854	Helium refrigerator [NASA-CASE-NPO-13435-1]	c31 N76-14284
Soft X-ray laser using crystal channels as distributed feedback cavities [NASA-CASE-NPO-13532-1]	c36 N75-15973	Nonlinear nonsingular feedback shift registers [NASA-CASE-NPO-13451-1]	c33 N76-14373
Shock absorbing mount for electrical components [NASA-CASE-NPO-13253-1]	c37 N75-18573	Strain gage mounting assembly [NASA-CASE-NPO-13170-1]	c35 N76-14430
System for generating timing and control signals [NASA-CASE-NPO-13125-1]	c33 N75-19519	Interferometer mirror tilt correcting system [NASA-CASE-NPO-13687-1]	c35 N76-14433

Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NPO-13756-1] c35 N76-14434

Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c60 N76-14818

Cermet composition and method of fabrication
[NASA-CASE-NPO-13120-1] c27 N76-15311

Dichroic plate
[NASA-CASE-NPO-13506-1] c35 N76-15435

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c44 N76-15573

Utilization of oxygen difluoride for syntheses of fluorocyclomers
[NASA-CASE-NPO-12061-1] c27 N76-16228

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c35 N76-16391

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446

A machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c39 N76-17427

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245

Analog to digital converter
[NASA-CASE-NPO-13385-1] c33 N76-18345

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401

Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c36 N76-18427

Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428

System for minimizing internal combustion engine pollutant emission
[NASA-CASE-NPO-13402-1] c37 N76-18457

Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c44 N76-18641

Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c44 N76-18642

Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c44 N76-18643

Priority interrupt system
[NASA-CASE-NPO-13067-1] c60 N76-18800

Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c71 N76-18886

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 N76-19338

Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c37 N76-20480

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c32 N76-21365

Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914

Wind sensor
[NASA-CASE-NPO-13462-1] c35 N76-24524

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553

Graphite reinforced bone cement
[NASA-CASE-NPO-13764-1] c24 N76-26281

Method and apparatus for automatic load sharing among paralleled converters
[NASA-CASE-NPO-13832-1] c33 N76-26393

Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c35 N76-26450

Portable, linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c44 N76-26690

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c44 N76-26692

Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c34 N76-27515

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c38 N76-28563

Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575

Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N76-29590

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700

Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701

Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372

Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c32 N76-31373

III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c33 N76-31409

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N76-31490

Reflected-wave maser
[NASA-CASE-NPO-13490-1] c36 N76-31512

Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c36 N76-31514

Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c37 N76-31524

Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c44 N76-31666

Furlable antenna
[NASA-CASE-NPO-13553-1] c33 N76-32457

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071

Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c31 N77-10229

The dc-to-ac converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c35 N77-10492

Hydrogen-rich gas generator
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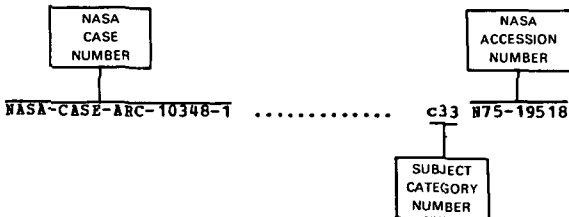
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Section 2

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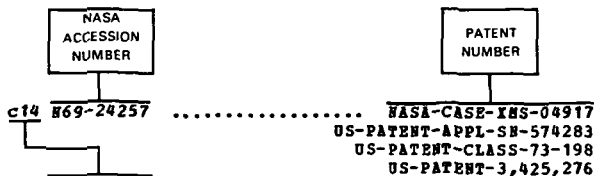
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